MISSOURI
BOTANICAL
GARDEN

bulletin

Winter 2010-2011 Vol. 99, No. 1 www.mobot.org

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IT

photo by Koraley Northen

President's Comment

As the International Year of Biodiversity draws to a close, the growing threats to the world's biodiversity remain as great a concern as they have been in the years leading up to what we had hoped would be a landmark year for biodiversity conservation. This was the year when the United Nations' target "to reduce the rate of loss of biodiversity worldwide" was due to have been met. Sadly, we have failed to reach this target over the eight years since it was adopted by the world community. However, this past October, delegates from 193 countries met in Nagoya, Japan for the 10th Conference of the Parties to the Convention on Biological Diversity to formulate strategies to address this crisis. The United States is the only remaining major country in the world still to ratify this Convention, so was not present at the table when these vital decisions about our future were being taken.

Nevertheless, we must be optimistic, as so often optimism leads to action. At that same meeting in Nagoya a new ten-year plan was adopted to halt the loss of plant diversity by 2020—a plan in which the Garden is set to play a major role. I was pleased to participate in the meetings where the plan was formulated and later also when it was welcomed and endorsed by representatives of most of the world's governments. It is clear that the Garden's work in helping to implement this new plan will be crucial to its achievement.

There is still tremendous biodiversity to be discovered, and if we are to protect plants worldwide, good knowledge about plant diversity will be fundamental to our efforts. A recent congress in Madagascar on the flora of tropical Africa highlighted the key role that taxonomists can play in such conservation efforts (see page 12). In Honduras, researchers have discovered not only a new species, but a completely new genus previously unknown to science (see page 6). The only species in this genus is already provisionally classified as endangered—sadly at risk of extinction as soon as it has been recognized.

The United Nations General Assembly declared 2011 as the International Year of Forests, and this year the Garden will celebrate these magnificent environments with *TREEmendous*, featuring a number of exhibits and activities to highlight the essential role of forests in our world and the vital nature of trees as a global resource.

This is the first issue of the *Bulletin* since I became president of the Garden, and I hope you continue to find it a valuable and informative publication.

Peter Wyse Jackson

Dr. Peter Wyse Jackson, *President*

> *To discover and share knowledge about plants and their environment in order to preserve and enrich life.*
>
> *– mission of the Missouri Botanical Garden*

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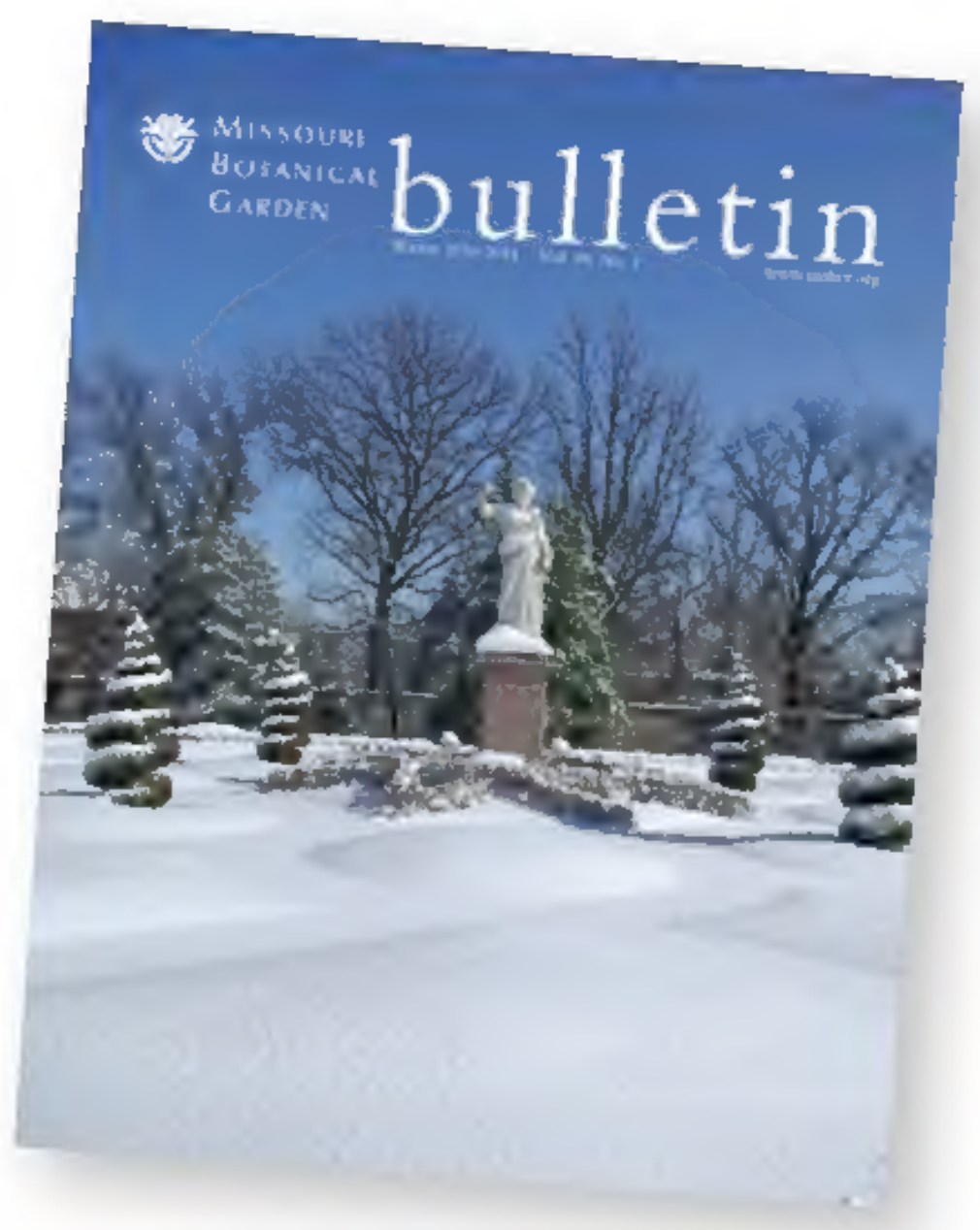
Ready to Go Electronic?



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On the Cover:

Victorian Garden in winter with *Juno* statue. Photo by Brian Mueller.

Credits

Editor: Jeff Ricker
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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except December 25.
Outdoor walking hours begin at 7 a.m. Wednesday and Saturday.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

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With a daytime temperature of 85 degrees year-round, it's summer inside the Climatron® even in the middle of winter.

gift of the GARDEN

Looking for gift-giving ideas that are memorable as well as meaningful this holiday season? The Missouri Botanical Garden has a few suggestions.

These gifts provide beauty and inspiration while supporting an institution that enriches life in the St. Louis region and leads the world in plant science and conservation work.

May we suggest?

Gift Memberships—
On Sale for the Holidays!
Give someone you love 12 months of free admission to the Garden, discounted admission to festivals and other special events, invitations to floral show previews, and all of the other great benefits of membership.

The Garden is offering 20 percent off the price of membership at the regularly priced $65 Garden level, $60 Garden Senior level, $95 Garden Plus level, and $150 Family level memberships.

These special prices are available at the Membership Services Desk in Ridgway Visitor Center from Wednesday to Sunday, December 1–5.

Find out more at www.mobot.org/membership, or call (314) 577-5118.

Bricks and Pavers—Gifts for a Lifetime

photo by JJ Lane

Bricks at the Garden

Commemorate a special occasion or remember a loved one with an engraved brick at the Missouri Botanical Garden or a paving stone at the Sophia M. Sachs Butterfly House.

Engraved bricks at the Garden are available in clay or bronze. They are displayed in perpetuity in the entry court of the William T. Kemper Center for Home Gardening, an enduring symbol of your love and esteem.

Butterfly-shaped paving stones available for engraving at the Butterfly House also are displayed in perpetuity in the entry court of this Chesterfield family attraction.

For information on engraving a paving stone or brick, please call (314) 577-0291 or visit the Graden's website at www.mobot.org.

photo by Kevin Wolf

Pavers at the Butterfly House

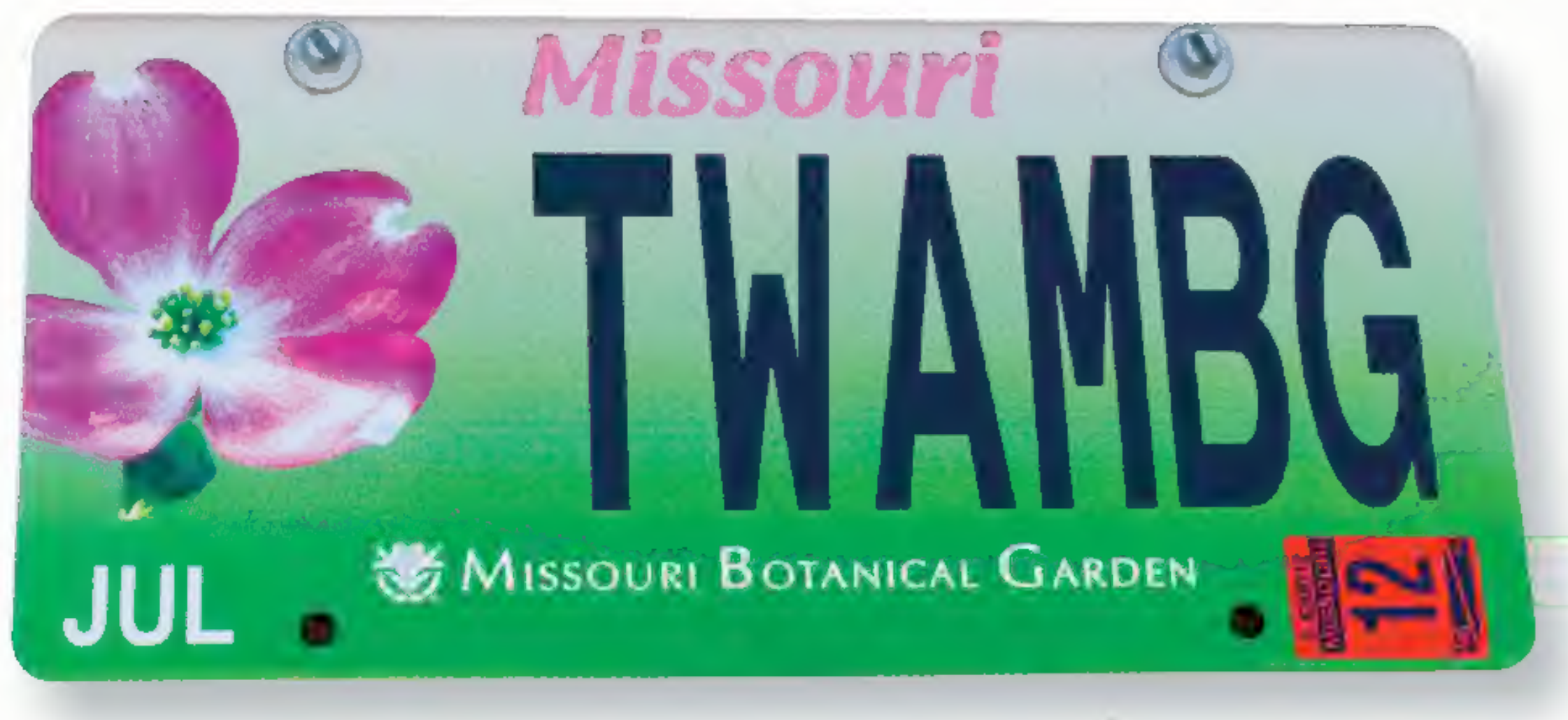


photo by Kimberly Bretz

Dress Up Your Ride—Garden License Plates

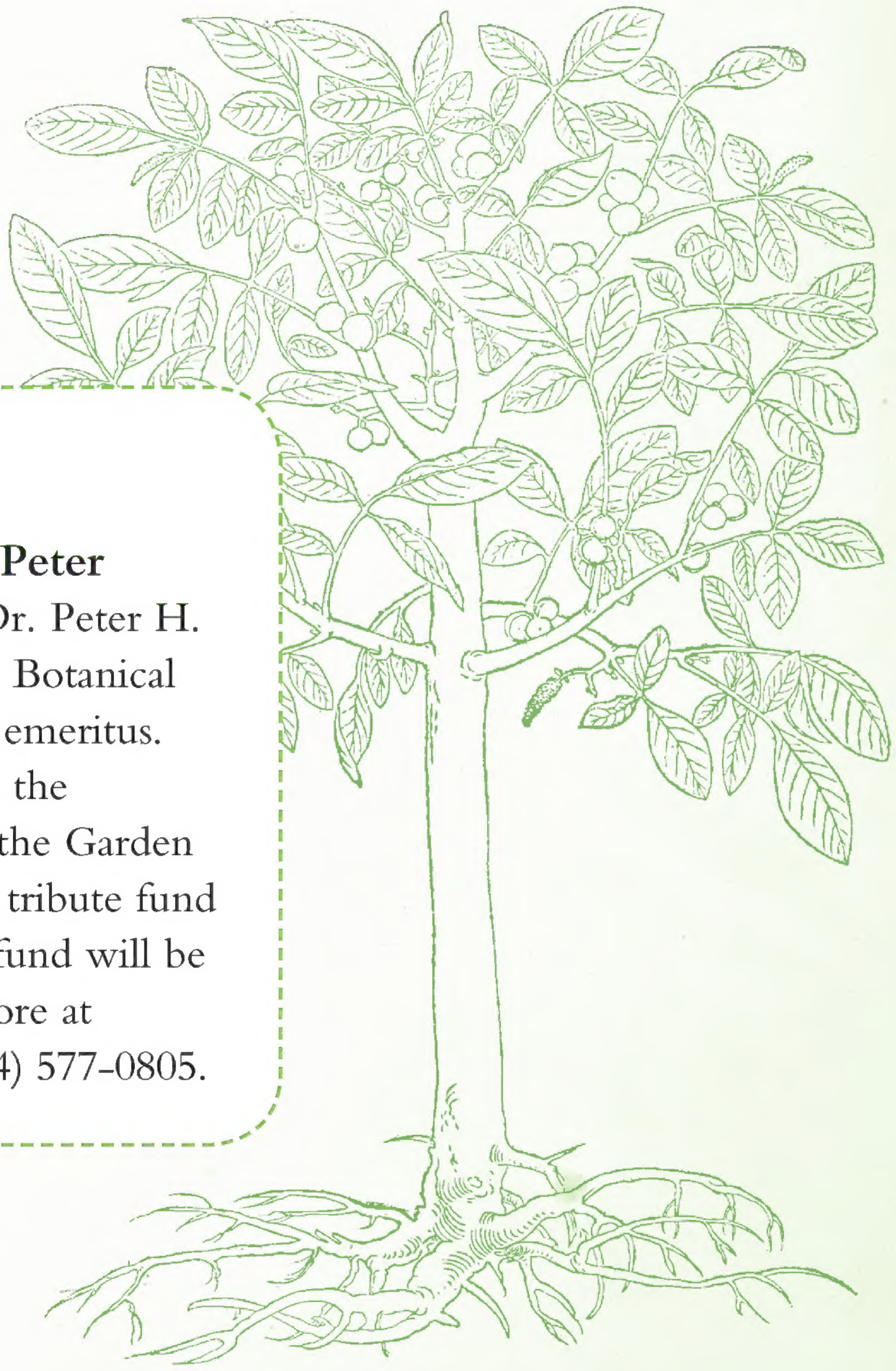
Is everyone on your gift list already a Garden member? That means they are eligible for a limited-edition Missouri Botanical Garden license plate. The plates cost $35 for a one-year use and $70 for two years.

Call the Garden at (314) 577-0805, and you will receive details on obtaining the plate from the Missouri Department of Motor Vehicles.

Pay Tribute, Remember a Loved One

Tributes offer a way to honor family and friends while supporting the work and beauty of the Garden. When you give a tribute or memorial gift, a personalized acknowledgement is sent to the recipient. Celebrate a life event or commemorate a life well lived. For details, call (314) 577-0805.

photo by Paul Staarmann



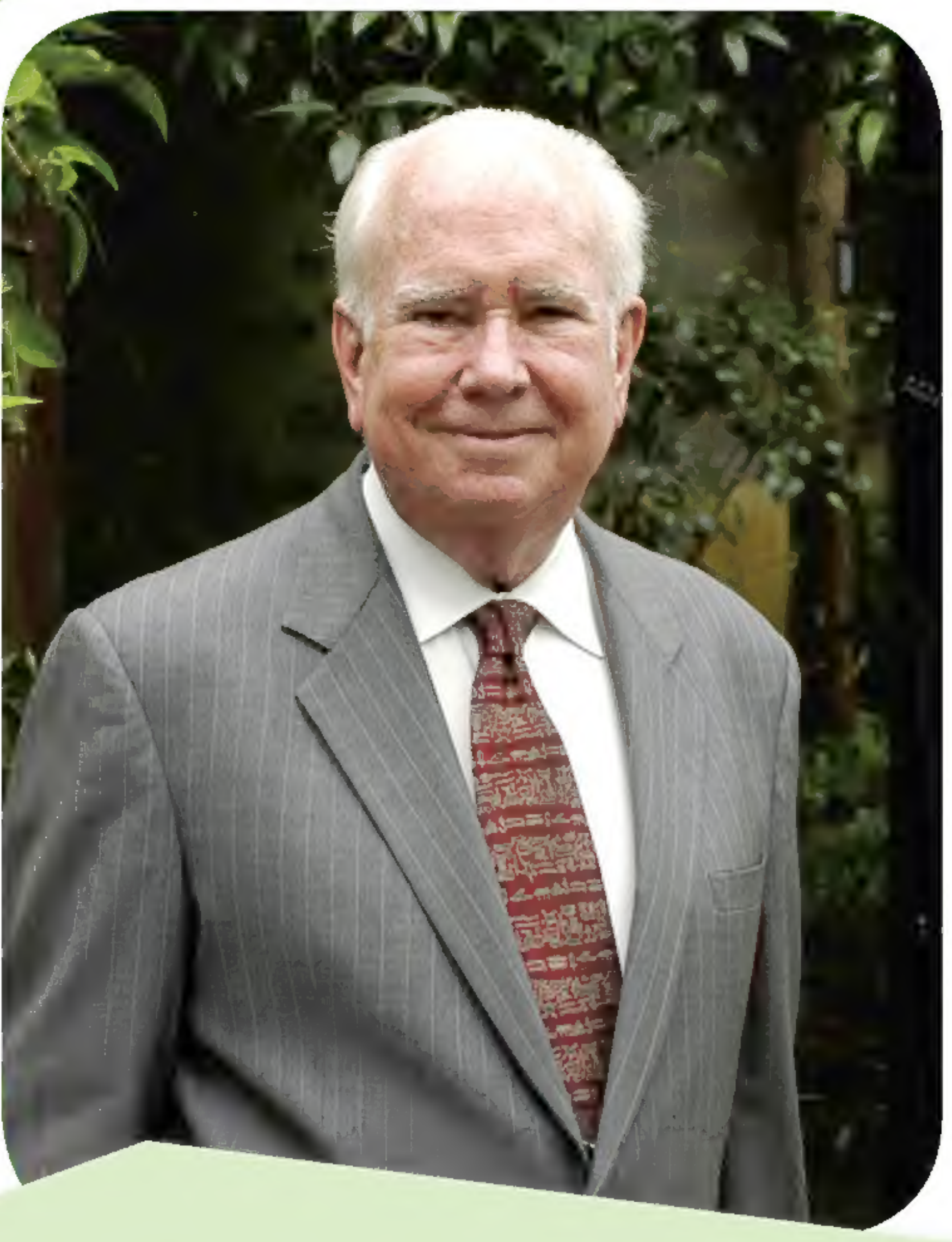


photo by Kristi Foster

Celebrate Success—
Contribute to Plant the Garden for Peter

In 2010, after nearly 40 years of service, Dr. Peter H. Raven retired as president of the Missouri Botanical Garden and assumed the title of president emeritus. To celebrate the tenure of a man who led the Garden to unparalleled accomplishments, the Garden established the Plant the Garden for Peter tribute fund in Dr. Raven's honor. Gifts made to this fund will be acknowledged in the *Bulletin*. Find out more at www.mobot.org/plantforpeter. Or, call (314) 577-0805.

Receive a
20% discount
on gift memberships December 1-5.
Discounts apply to on-site sales only.

Garden Joins Biodiversity Consortium

The Missouri Botanical Garden has joined the Convention on Biological Diversity's Consortium of Scientific Partners. The Garden becomes the 12th member of the Consortium, which includes The Smithsonian National Museum of Natural History and The Royal Botanic Gardens, Kew.

The Convention is an international, legally binding treaty with three main goals: conservation of biological diversity, sustainable use of its components, and fair and equitable sharing of benefits arising from genetic resources.

A Memorandum of Understanding on the Garden's membership was signed at the 10th Meeting of the Conference of the Parties to the Convention on Biological Diversity in Nagoya, Japan, by Ahmed Djoghlaf, executive secretary to the Convention on Biological Diversity, and Dr. Peter Wyse Jackson, president of the Garden.

"A partnership approach to building capacity for the conservation of biodiversity is essential if we are to achieve the challenging targets we face in the decades ahead," said Dr. Wyse Jackson. "The Missouri Botanical Garden is fully committed to supporting biodiversity conservation worldwide and in particular to helping to achieve the objectives of the Convention's Global Strategy for Plant Conservation."

The Global Strategy for Plant Conservation was first adopted in April 2002 and consists of a plan containing 16 strategies to address the loss of plant species around the world. At the Japan meeting, an updated plan with revised targets was adopted for 2011 through 2020. The Garden will play a major role in achieving many of these targets.

In Memoriam: Doris Waters Harris Lichtenstein 1925–2010

Doris Waters Harris Lichtenstein, Garden trustee, philanthropist, and dedicated career and family woman, died Aug. 9, 2010. She was 85.

Mrs. Lichtenstein, with her husband David B. Lichtenstein, leaves a legacy at the Missouri Botanical Garden and throughout St. Louis supporting the arts, education, and health care.

The couple's contributions include support of the Shaw Nature Reserve Lichtenstein Cabin, which allows for overnight education experiences in the natural world; the Frank Stella sculpture *Stubb's Supper* near the Japanese Garden; and the creation of the Doris Waters Harris Lichtenstein Victorian District, a project that beautifully defined a section of the Garden linked to its Victorian-era founder, Henry Shaw.

Mrs. Lichtenstein's devotion to the Garden was an intergenerational matter. She visited the Garden as a child, parent, and grandparent.

Mrs. Lichtenstein worked for 36 years in leadership positions at Missouri Baptist Hospital and was also a busy mother of three sons. She was an emeritus member of the Garden's Board of Trustees from 2006 until the time of her death.

Garden Researcher Discovers New Genus

Dr. Carmen Ulloa, associate curator at the Missouri Botanical Garden, was lead author on an article published in the October *Annals of the Missouri Botanical Garden* describing a new genus of tree in the Aptandraceae family that is endemic to the Central American country of Honduras. Ulloa named the genus *Hondurodendron*, meaning "tree of Honduras."

"Although many botanists describe numerous species as part of our scientific work, to describe a new genus is perhaps a once-in-a-lifetime experience," Ulloa said.

The first specimens of this genus were collected by one of the article's co-authors, Dr. Daniel L. Kelly of Trinity College in Dublin, and a team of researchers and students during a survey in Parque Nacional El Cusuco in northwest Honduras in 2004 and 2006.

Hondurodendron is known only from the park, where it appears to be widely but sparsely distributed. Because logging and grazing by livestock occur within the bounds of the national park, the authors assigned the species a provisional conservation status of Endangered following the International Union for Conservation of Nature (IUCN) guidelines.

Garden Members Travel to China in 2011

Join Drs. Peter and Patricia Raven on a special travel program to China designed exclusively for Missouri Botanical Garden members. This 14-day exploration of China takes place October 16–29, 2011.

The trip includes four days in Beijing, followed by stops in Xi'an, Guilin, Hangzhou, Suzhou, and more than two full days in Shanghai.

For information call (314) 577-5181.

photo by Dale Dufer

EarthWays Center Moves

The EarthWays Center is moving from its current location in Grandel Square to Garden grounds by the end of 2010. EarthWays Center staff offices will relocate to the Garden's Commerce Bank Center for Science Education, 4651 Shaw Boulevard.

Existing EarthWays Center programs and projects will continue and, together with new efforts, will expand the Garden's voice in the community as innovative leaders promoting sustainability in the St. Louis region.

"This move strengthens the Garden's commitment to showcasing how one's choices and behaviors impact the environment and plant conservation," said Garden President Dr. Peter Wyse Jackson.

Dr. Raven Receives Awards

Dr. Peter Raven, the Garden's president emeritus, was the recipient of numerous awards recently.

He was among 50 individuals from 26 countries to receive the Friendship Award from the Chinese government. The award, presented September 29 in China, honors Dr. Raven for promoting friendly interchange with the Chinese people over the course of three decades.

In addition, Dr. Raven received the Biodiversity Award from the Prince Albert II of Monaco Foundation. The foundation honored Dr. Raven for his contribution to science and his work toward a better understanding of the living world.

Closer to home, the *St. Louis Business Journal* honored Dr. Raven with its Heroes of the Planet Award in the Visionary category. These awards honor and promote businesses and individuals that have led the way in advancing and promoting environmental sustainability within the St. Louis region.

Garden Researcher Lands IMLS Grant

photo by Leslie Wallace

Matthew Albrecht, assistant curator of conservation biology in the Garden's Center for Conservation and Sustainable Development (CCSD), has received a National Leadership Grant from the Institute of Museum and Library Services (IMLS). The project will assess the response of plant species in the Midwest to six possible climate change scenarios, rank species vulnerability to climate change, and work with the most vulnerable species in assisted migration, including testing possibilities in the lab and in "climate change plots" at Washington University's Tyson Research Center and at Shaw Nature Reserve.

"In order to conserve plant diversity and ecosystem services, we need to understand how climate change might alter the distribution and abundance of plant species," said Albrecht.

What's in a Name? Global Plant List Spells It Out

Together with the Royal Botanic Gardens, Kew, the Missouri Botanical Garden in September announced the development of The Plant List, a working list of all the world's plant species to aid global plant conservation.

The project involves combining records from existing plant databases (such as Tropicos®) to create a single, unified database. In the end, The Plant List should include approximately 400,000 species, not including ferns and algae.

"The creation of The Plant List is the most significant collaboration ever between Missouri Botanical Garden and Royal Botanic Gardens, Kew and a historic accomplishment," said Dr. Peter Raven, the Garden's president emeritus.

"Without accurate names, authoritatively determined, understanding and communication about global plant life would descend into inefficient chaos, costing vast sums of money and literally threatening lives in the case of plants used for food or medicine," said Professor Stephen Hopper, director of Kew.

30-day Composting Pilot Program in Sassafras

The Missouri Botanical Garden further demonstrated its commitment to sustainability this fall by conducting a 30-day food waste composting pilot program in the Garden's café, Sassafras.

The Garden partnered with St. Louis Composting for the pilot, during which all disposables were changed to compostable disposables, including cups, straws, and napkins. Food scraps were also collected for composting.

The Garden recycles nearly 100 percent of its green waste and more than 75 percent of its solid waste.

"We are very hopeful this pilot will result in a long-term solution for further reducing the Garden's waste stream," said Deborah Frank, the Garden's vice president of sustainability.

Gifts to the Henry Shaw Fund

HEALING PEOPLE, HEALING THE PLANET

photo by Leslie Wallace

Many of us experienced the healing power of plants before we knew how to spell "botanist."

Plants heal us. Throughout our lives, we experience their restorative effects in a variety of ways for body, mind, and spirit. That is why the Missouri Botanical Garden has dedicated its **2010 Annual Appeal** to the subject of the healing power of plants. The Garden seeks your financial support to help it continue this important work of healing.

The Garden's Beauty

"Everybody needs beauty as well as bread, places to play in and pray in, where nature may heal and give strength to body and soul." —*John Muir*

Through their beauty, plants possess a unique ability to heal us. At the Missouri Botanical Garden, maintaining this aesthetic requires investments in equipment, plant materials, greenhouse operations, and people—horticulture staff spend an average of 1,300 hours a week maintaining the 79-acre landscape.

Research and Conservation

A planet without plants is a planet without people. Plants give us food, filter toxins from our air and supply oxygen, and help stabilize the climate and the soil. By the end of this century, though, climate change and deforestation may lead to the extinction of as many as half of the plants living today.

The Missouri Botanical Garden is leading the effort to slow plant extinction and build a body of knowledge about plants. Garden scientists travel to remote places and search for plants that may hold potential as medicine, fabric, or food.

These scientists share their findings with the global plant science community and also foster sustainable practices around the world that minimize harm to the environment and help alleviate poverty.

Join the Effort

The Missouri Botanical Garden is at its best when visitors are inspired to join in its mission. Please use the envelope inserted on this page to make a gift to the Garden's *Healing People, Healing the Planet* annual appeal.

CONSIDER WHAT YOUR GIFT CAN DO:

- $50 provides a local teacher a science curriculum kit and other teaching tools.
- $100 supports a student in the year-long Habitat Helper program at the Shaw Nature Reserve, pays a research field assistant in Madagascar, or covers the cost of 125 spring bulbs.
- $250 replaces a bed of roses at the Garden or establishes a garden for a family in a developing country not only to feed them, but provide supplemental income.
- $350 funds scholarships for five students to participate in a one-night, two-day program at the Shaw Nature Reserve.
- $500 covers costs of creating an educational plant bed in the Doris I. Schnuck Children's Garden or a three-month stipend for a parabiologist in Peru teaching high school students methods for conserving medicinal plants.

2011 MEMBERS' DAYS AND EVENTS

Every month, Garden members enjoy special events, tours, and lectures. Join us!

Friday, January 28	Orchid Show Preview
Tuesday, February 15	A World of Gardens
Saturday, February 19	Young Friends Trivia Night—Garden Style
Wednesday, March 16	March Morpho Mania
Saturday, March 26	New Member Orientation
Saturday, April 16	Eggstravaganza
Thursday, April 28	Herb Gardening
Thursday, May 5	Bird Watching at Shaw Nature Reserve
Friday, June 3	Sustainable Gardening
Monday, June 6	Rose Evening
Friday, June 10	Musical Evening
Sunday, June 12	Garden Tour
Friday, June 17	Midsummer Night's Dance
Tuesday, June 21	Young Friends' Happy Hour
Friday, July 8	Family Picnic
Saturday, August 13	New Member Orientation
Tuesday, August 16	Symbolism in the Japanese Garden
Sunday, September 11	Grandparents' Day
Tuesday, September 20	The Red List
Saturday, October 1	Best of Missouri Market Members' Breakfast
Saturday, October 8	October Owls and Orchids
Friday, October 14	Young Friends' Fest-of-Ale
Thursday, October 20	Notable Trees
Sunday, October 23	Ghouls in the Garden
Tuesday, November 8	Holiday Decorating
Wednesday, November 30	Gardenland Express Preview
Saturday, December 3	Breakfast with Santa
Sunday, December 4	Breakfast with Santa

**Dates and times subject to change*

EXTREME
Tree houses

TREEmendous Events Mark U.N. Year of Forests

Think you know what a treehouse looks like? Think again.

The livelihoods of 1.6 billion people worldwide depend upon forests, which are home to 300 million people and 80 percent of the planet's biodiversity. This April, visitors to the Missouri Botanical Garden will get a different perspective on what it means to call a tree "home" with *Extreme Tree Houses*, a juried exhibit that challenges our preconceived notions of what a treehouse is.

The Garden is home to 5,000 trees, which is ironic considering that when Henry Shaw first set his sights on the future home of his Garden, there were no trees to be seen. The exhibit, endorsed by the U.S. Green Building Council, is part of *TREEmendous*, the Garden's yearlong celebration of the United Nations' International Year of Forests.

Winning designs will be selected by a jury of experts and judged on numerous criteria, including accessibility, color, fantasy, sustainability, and connecting children with nature. Winners will be announced January 7.

For more information on the contest and tree-related events throughout the year, visit www.mobot.org/treemendous.

photo by Jack Jennings

Pardon Our Progress: Improvements at Ridgway Visitor Center

Beginning January 17, the Ridgway Visitor Center will close early at 3 p.m. on weekdays for repairs to the barrel vault roof panels. As the existing roof panels have deteriorated over the years, the light levels in the Visitor Center have decreased. The new panels will restore light levels and appearance to those of the building's opening in 1982. In addition, the new panels are insulated and will provide annual energy savings between $8,000 and $10,000.

Garden grounds will remain open until 5 p.m. daily throughout construction. After 3 p.m. Monday through Friday, visitors can access the Garden grounds and the Garden Gate Shop through alternate entrances on the east side of the Visitor Center. Sassafras, the Garden's café, will close early at 3 p.m. on weekdays, with lunch served until 2 p.m. The Visitor Center will remain open as usual until 5 p.m. on weekends.

Prior to construction, the 928-piece, 2,300-pound Chihuly chandelier will be dismantled by Denny Park Fine Arts Studio and removed for safekeeping. The team includes a Chihuly Studio representative to authenticate the reinstallation as a Chihuly piece.

Top Five Tips for Wintertime Family Fun at the Garden and at Home!

Shake off cabin fever with a walk in nature after a snowfall.

We love the saying, "There's no such thing as bad weather, just bad clothing decisions." The cold, snowy winter doesn't necessarily have to keep you cooped up inside all day. With just a bit of planning and preparation, Mother Nature's winter wonderland can become one of your family's favorite places to explore, discover, and connect with the natural world. It's also pure fun! Our top five tips, from our family to yours:

1 **Just get out!** Before cabin fever settles in, bundle everyone up and head outdoors to take deep breaths of fresh air, take in the sights and smells, and go exploring in your own backyard and neighborhood. Venture out to the Shaw Nature Reserve to hike its nature trails, or visit the Garden to take an expert-led, hour-long excursion during Great Green Adventures: Trees with Winter Coats (December 18 at the Garden).

2 **Give nature-inspired gifts.** In the spirit of the season, encourage your entire family to think and act green when considering gifts. Throughout December, check out the Garden's cool classes for extra inspiration: Holiday Decorating Overnight (December 3–4 at the Shaw Nature Reserve); Green Parenting: Green Gifting for the Holidays (December 5 at the Garden); and Garden Buds: Plants as Presents (December 9 at the Garden).

3 **Release your child's inner scientist.** The wintery outdoors makes for an ideal learning lab. Have your child pour a little water in a flat pan outdoors on a cold day and watch it freeze. Continue to add just a little more—and even add some food coloring—and see it freeze, layer by layer. Challenge each other to prove each snowflake is different by examining flakes with a magnifying glass. Or melt some snow and see how little water it makes and how dirty the water is. Encourage questions, testing, and a limitless sense of wonder.

4 **Connect with wildlife—** specifically butterflies, birds, and frogs. Families with children ages 2–4 can visit the Sophia M. Sachs Butterfly House to experience Bugaloo: Nature's Shapes and Colors (February 1 or 13). Bird-lovers of all ages can migrate to the main Garden to participate in the sixth annual Backyard Bird Festival (February 5). As winter draws to a close, curious naturalists can look forward to Spring Peeper Musicals, frog festivals of song at the Shaw Nature Reserve (February 15 to March 31). Exact dates are up to the frogs! E-mail helen.mccallie@mobot.org to put your name on a contact list.

5 **Model a love for the outdoors… no matter the season.** In wintertime, adults are often burdened with shoveling snow, scraping ice off windshields, and other not-so-fun stuff. Instead of pouring all your outdoor time into these obligatory tasks, carve out time to enjoy and play in the outdoors as a family. Embrace the changes that come with each season, and your children will take your lead. Happy winter!

Cardinals
Rulers of the Roost
World Series Champions
2006

photo courtesy MBG Education

photo by Jessica Kester

Teen volunteers in SAGE (Students as Garden Educators) can earn service hours and enhance their college applications while helping in the Children's Garden.

Opportunities for Teens

Know a teenager interested in the outdoors? Curious about exploring conservation careers? Passionate about plants and the natural world? Here are two great opportunities to put that passion to work in 2011… and sign-up starts now!

SIFT–TERF

(Shaw Institute for Field Training—
Tyson Environmental Research Fellowship)

The SIFT program is a one-week summer field training experience at the Shaw Nature Reserve, combined with 100 hours of additional training and field work activities during the following school year. In the summer, teens are introduced to a variety of Missouri ecosystems and gain skills necessary to conduct field research, including plant and animal identifications and training in the use of GPS and GIS. During the school year, teens are involved in important research and restoration activities including invasive species management, prairie reconstruction, pollination studies, and plant and animal inventories. St. Louis-area 10th-graders are eligible to apply for the SIFT program starting December 1. For more information and to download an application, visit www.shawnature.org.

SAGE

(Students as Garden Educators)

This program is an opportunity for teens ages 14–18 who want to help families and children explore and discover while learning about plants, nature, and the great outdoors. With their base camp at the Doris I. Schnuck Children's Garden, SAGE volunteers can earn service hours, gain valuable public speaking and teaching skills, and enhance future college and job applications. SAGE program recruitment begins December 1. For questions, e-mail sage.service@mobot.org or call (314) 577-9425.

For ages 6–12...

Great Green Adventures:
Trees with Winter Coats

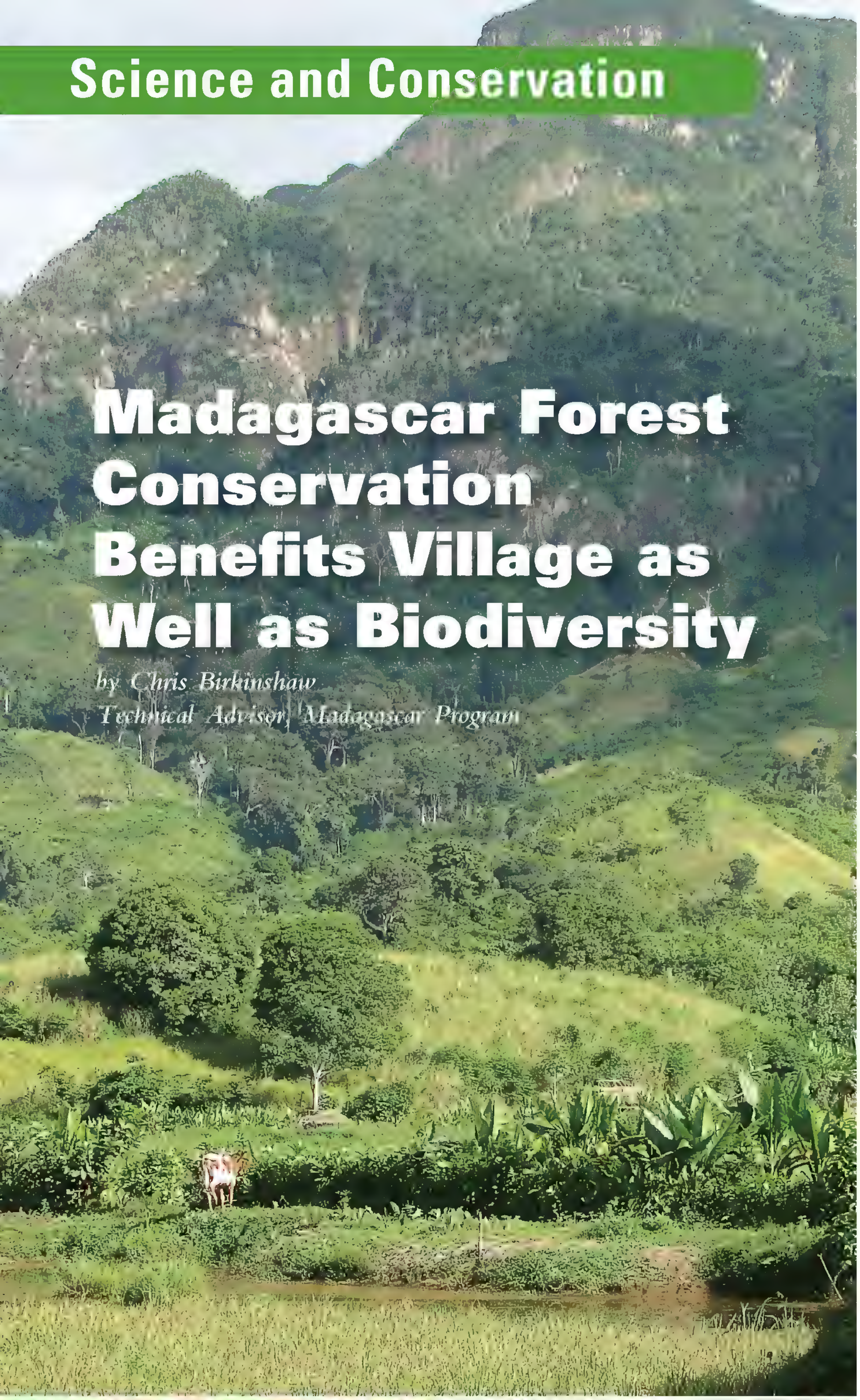
December 18

Why do some trees keep their leaves or needles over the winter and others lose them? Join us as we get to know some of the trees in the Garden by their bark, needles, or berries.

Great Green Adventures are held the third Saturday of every month at 10:30 a.m. and repeated at 1:30 p.m. Meet in front of the Doris I. Schnuck Children's Garden Ticket Fort.

Madagascar Forest Conservation Benefits Village as Well as Biodiversity

by Chris Birkinshaw
Technical Advisor, Madagascar Program



photos by Chris Birkinshaw

Lower slopes of the Makirovana-Tsihomanaomby Forest show forest loss due to shifting cultivation. Small images: (left) Nearly two-thirds of the population of Antanandava is under the age of 17. (right) The existing primary school at Antanandava will be replaced through funding from a grant from Seacology.

About 1,100 people live in Antanandava, a *fokotany* (or village) in the northeastern part of Madagascar. It's one of seven fokotany adjacent to the 13,000-acre Makirovana-Tsihomanaomby Forest, which has an exceptionally rich flora and fauna that include several species found nowhere else. This evergreen forest also contains the headwaters for many streams that irrigate thousands of acres of rice paddies on the surrounding plains.

The Makirovana-Tsihomanaomby Forest is one of 11 priority sites in Madagascar where the Garden is working with local communities on plant conservation through the sustainable use of natural resources. These sites are distributed throughout the country and include a diversity of vegetation types.

At each site, a facilitator pursues conservation efforts by working closely with local stakeholders to reduce poverty, improve human well-being, and promote sustainable resource management.

During the last two decades, around 50 percent of the Makirovana-Tsihomanaomby Forest has been lost due to shifting cultivation, an illegal but widely used practice in which farmers cut the forest, leave the debris to dry, and then burn it to release nutrients so they can plant crops in sunny, fertile, weed-free soil. While good harvests are obtained in the first few years, yields quickly diminish as heavy tropical rains leach nutrients and cause erosion. The plot is then abandoned and the cultivation cycle begins again with further forest clearing.

To protect the remaining primary forest, conserve its biodiversity, and maintain the key ecological goods and services it provides, an agreement with the people of Antanandava will lead to the implementation of a *dina* (a set of traditional community rules) that will stop all shifting cultivation in the forest for the next 15 years, providing a breathing space during which more sustainable livelihood options can be developed. In this agreement their existing damp, earthen-floor, leaf-thatched school will be replaced with a modern structure. The school will serve a village where nearly two-thirds of the population is under the age of 17.

In Antanandava and the other *fokotany* that intersect with this forest, Garden staff have worked with local stakeholders to develop and implement community rules concerning the sustainable exploitation of natural resources. Each fokotany has a committee tasked with enforcing these rules, and two forest rangers who patrol the forest to detect infractions. Because of the forest's importance as a watershed for the rivers that irrigate their crops, most of the local farmers support forest protection.

This project is being funded by Seacology, a nonprofit organization with the sole purpose of preserving the highly endangered biodiversity of islands worldwide.

Garden staff gather at the 2010 AETFAT conference in Madagascar.

Speaking up for Conservation in Madagascar

In 2010 Madagascar hosted the triennial congress of the Association for the Taxonomic Study of the Flora of Tropical Africa (AETFAT), and the staff of the Missouri Botanical Garden's Madagascar program played an important part in organizing and running what was one of the best attended congresses in the association's 60-year history.

Garden staff made up more than 25 percent of the total attendance and authored a third of the talks plus 25 percent of the posters.

For Pete Lowry, Curator and head of the Garden's Africa & Madagascar program, addressing the congress during the opening ceremony on the relationships between taxonomists and sustainable resource use was an opportunity to provide a wake-up call to colleagues on the crises of population growth and over-exploitation of natural resources.

"We (taxonomists) have to step up and play a more active and visible role," he said, adding that he believes it's no longer enough for taxonomists simply to describe and document plants. "We have to convey a message about how these plants are endangered. Everyone has to find the stories they can tell."

In Madagascar, a nation of rich biodiversity, less than 10 percent of the original vegetation remains. This includes many tiny fragments where some species are barely hanging on in their native environments.

The Garden has about 150 staff in Madagascar, of whom all but one are native Malagasy. They work with local communities to manage 11 conservation sites that are home to particularly rich floras with a high number of local endemics, species that are found nowhere else in the world. Tremendous pressures are coming to bear on these environments, Lowry said. On top of unsustainable resource practices, the population of Madagascar doubles about every 25 years. As is common in the developing world, resource use goes up faster than population growth as people seek a better standard of living.

Saving *Schizolaena tampoketsana*

Known locally as *Sohisaka*, this tree is a member of the Sarcolaenaceae family. When discovered, fewer than 100 individuals of this species were known in the wild and were severely threatened by wildfires and deforestation. The Garden's Madagascar staff worked with local residents to set up fire breaks around the few degraded forest patches where the *Sohisaka* survived. The local community is now actively involved in growing thousands of tree seedlings and saplings that are planted to restore *Sohisaka's* habitat.

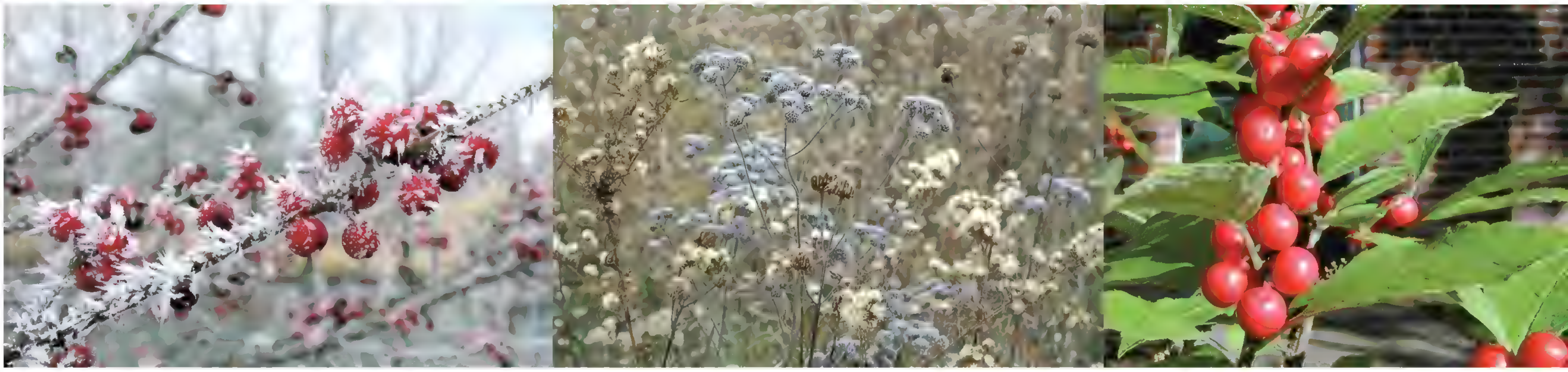
At the AETFAT congress a number of talks addressed conservation activities, and Lowry said younger generations of taxonomists are recognizing the link between their work and conservation efforts.

Lowry likens the process of saving an endangered plant species to health care: "Just because you've stabilized a patient, you haven't brought him back to full health." In addition, there are many species that botanists and conservationists haven't yet recognized need stabilizing, and which may only have years before they go extinct.

"That's why telling those stories about saving a species is so important," he said. "In doing so, it shows people there are things that can be done."

Native plants add life to winter gardens

by Cindy Gilberg



Top: the striking amethyst fruit of American beautyberry (Callicarpa americana) *is arranged in whorls around the stems.*

Above, from left: possum haw (Ilex decidua) *produces fruit well into winter. Left to stand in the garden, American mountain mint* (Pycnanthemum pilosum) *adds visual appeal in autumn. Winterberry* (Ilex verticillata) *also produces a bounty of red berries.*

Don't lament the arrival of winter. When the autumn leaves come down, the sublime beauty of the winter landscape is unveiled. Look out the window with a critical eye. You'll notice birds hunting down brightly colored berries, dried seeds of perennials and grasses, or trees with sculptural trunks or intriguing bark. Include plants with these attributes to create a garden that is anything but dreary.

Native plants produce ample crops of berries and seeds for the sole purpose of attracting birds and small mammals. In return for food, the animals provide seed dispersal and guarantee the plant another year of offspring. All of it adds color and interest that the gardener can enjoy.

Natives that produce autumn fruit are obvious choices. Three hollies are Missouri natives—the classic evergreen American holly (*Ilex opaca*) and the deciduous hollies

photo by Scott Woodbury

possum haw (*Ilex decidua*) and winterberry (*Ilex verticillata*). The latter two have abundant red berries. Another choice is our state flower, the hawthorn (*Crataegus* spp.), with about 15 species represented in Missouri. White flowers in May are followed by bright red fruit that ripens in fall and persists into winter. Green hawthorn has intriguing gray-green bark and grows in moist to average soils.

Our state tree, flowering dogwood (*Cornus florida*), also produces a bountiful crop of red berries, while other species of this genus have white fruit. Native *Viburnum* sports showy berries as well, though they tend to produce well on alternating years with full clusters of fruit in hues of blue to black. For an unusual berry color, try American beautyberry (*Callicarpa americana*). Its amethyst fruit is arranged in whorls around the stems and is a real showstopper.

Adding winter interest can be as simple as allowing plant structure to remain in the garden. Don't be so tidy in autumn; keep leaves and seed heads of grasses and perennials for birds to take cover in and feed on. The seed heads of black-eyed Susan (*Rudbeckia* spp.), rose mallow (*Hibiscus lasiocarpus*), and rattlesnake master (*Eryngium yuccifolium*) contrast boldly with delicate tan grasses. Plants such as these are popular stops for goldfinches and other birds, adding life to the view.

photos by Chris Starbuck and Scott Woodbury

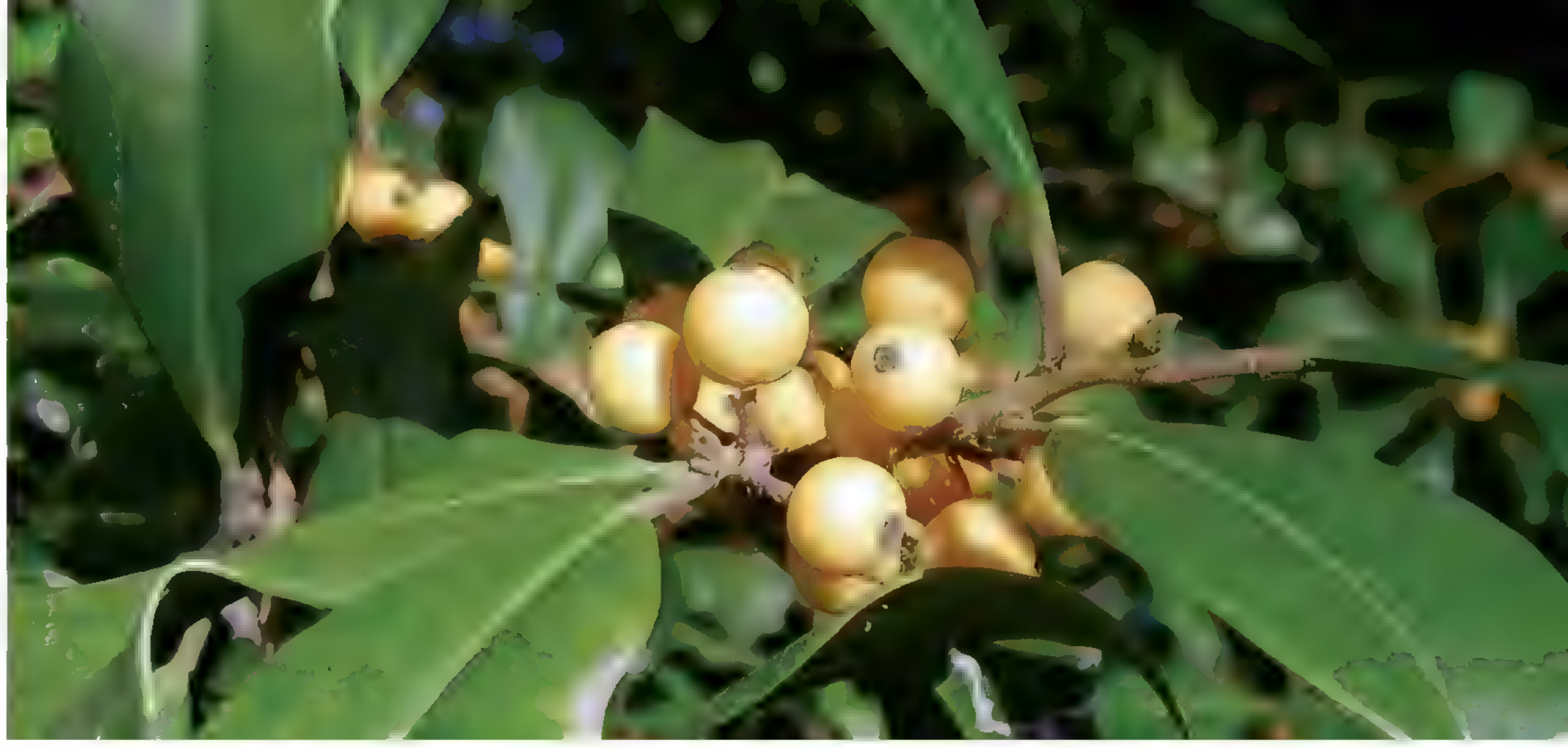


photo by Chris Starbuck

Some American holly cultivars, such as Ilex opaca *'Canary,' sport distinctive yellow fruit instead of the traditional red.*

Other Trees and Shrubs with Decorative Fruit for Birds and Color

by Chip Tynan

photo by Chris Starbuck

Dogwood

Dogwoods | The versatile gray dogwood (*Cornus racemosa*) is supremely adaptable to almost any garden condition. Site carefully, however, as it suckers profusely, forming thickets. White flower clusters produce abundant nectar and pollen for many pollinating insects. Leaves provide food for butterfly and moth caterpillars. Small white fruits, present from late summer to early fall, are said to be favored by over 100 species of birds.

Prickly ash | Prickly ash (*Zanthoxylum americanum*) is actually a member of the Rutaceae family and related to citrus. Stout spines along its trunk and branches may put off some gardeners, but others may find it useful for discouraging unwelcome traffic. Fruits are eaten by birds well into winter.

Hollies | The Garden has a large collection of American holly (*Ilex opaca*) containing many unique cultivars. Male pollinators are required to fertilize female flowers. The resulting fruits are typically red, but yellow varieties make a striking statement when grown alongside a red cultivar.

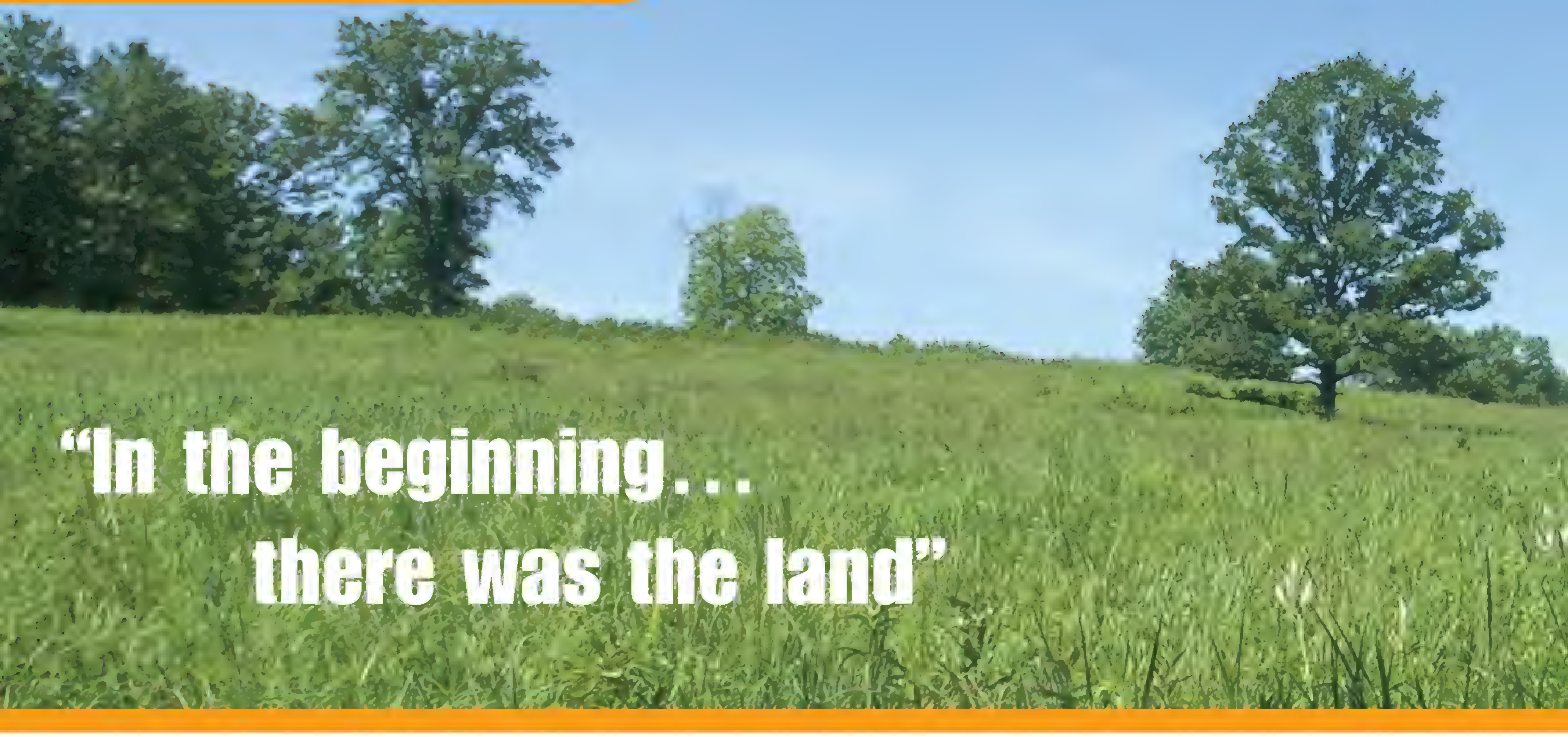
photo by Thomas Pope

Spicebush

Spicebush | The native, shade-loving spicebush (*Lindera benzoin*) bears bright red fruits that persist into fall. Songbirds find them highly attractive. Plant in groups and include a male pollinator, as only female plants are fruitful. The foliage of both sexes is the primary food source for the caterpillars of the beautiful spicebush swallowtail butterfly.

Viburnums | Three native species of viburnum produce fruit that is of great value to migratory songbirds: the nannyberry (*V. lentago*), the blackhaw (*V. prunifolium*), and the rusty blackhaw (*V. rufidulum*). Their showy fruits mature to deep purplish black, and all display excellent fall color.

"In the beginning... there was the land"



The Shaw Nature Reserve is renowned as a location for habitat restoration, including prairie restoration.

Shaw Nature Reserve Marks 85th Anniversary

The Shaw Nature Reserve is located at the junction of the Ozark Plateau, the western tallgrass prairies, and the eastern deciduous woodlands. Grassland, woodland, wetland, dolomite glades, and floodplain forest all exist on the property. The potential for habitat restoration was high and, as a result of a showcase restoration program, Missouri native biodiversity at the Reserve is exceptionally well-represented today.

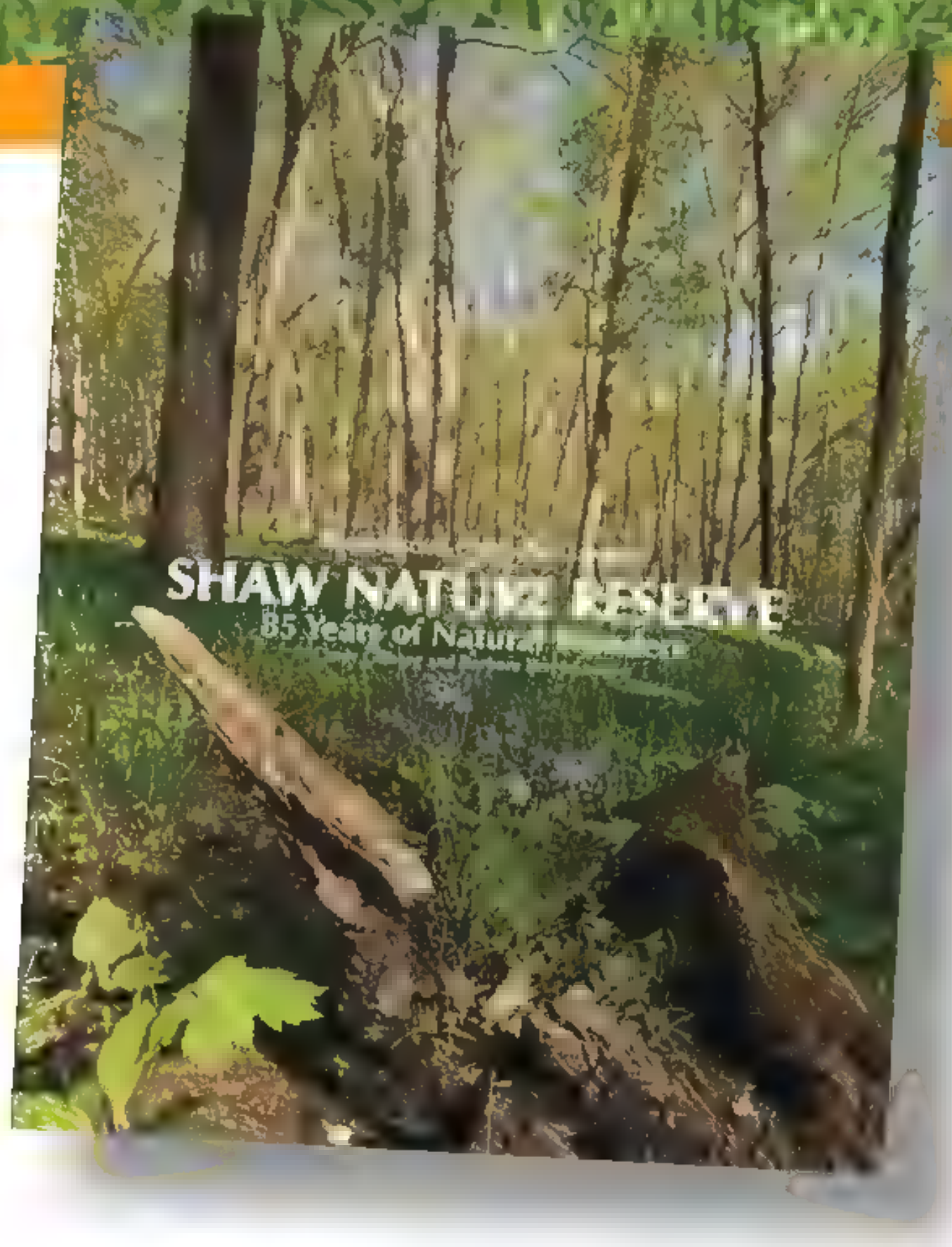
In the 1920s the Missouri Botanical Garden decided to relocate its plant collections away from the harmful air pollution of the coal-burning days in St. Louis. The lack of fresh air and sunshine especially damaged the orchid collection. In 1925 the Garden purchased 1,300 acres in Gray Summit, including a lovely historic home (today's Bascom House). Additional purchases brought the present-day Shaw Nature Reserve to 2,444 acres.

The 1925 Master Plan indicated formal walkways, permanent plant collections, and a grand conservatory similar to the one at the Royal Botanic Gardens, Kew. Greenhouses, roads, and reservoirs were built that were the underpinnings for today's infrastructure at the Reserve. The Pinetum was planted with conifers from around the world, and a tree nursery was developed along with orchards of edible and ornamental trees. The orchid collection thrived at the new property and was periodically open to the public until its return to the Garden in 1958.

The focus of the Shaw Nature Reserve has changed through the years, from a refuge from pollution for plant collections, to an arboretum and a demonstration site for sustainable agricultural practices, and more recently to a premier location for environmental studies and habitat restoration.

Early in the 1940s a Wildflower Reservation was created, an early indication of the interest in habitat and native plant studies and a precursor to today's Whitmire Wildflower Garden. Edgar Anderson, for whom the new support complex at the Reserve is named, assisted August Bielmann (manager, 1941–1956) in the development of the Wildflower Reservation and in initiating many educational programs and tours. In the late 1960s the advent of environmental awareness fueled renewed interest in both education and conservation at the Reserve. In 1972, the Shaw Nature Reserve was designated a National Environmental Education Landmark. A new Master Plan was developed in 1990, and today the Shaw Nature Reserve is renowned as a center for environmental education, habitat restoration, and native plant horticulture.

photo by Sonya Bueick



Reserve Began Life as a Refuge from City Pollution

An excerpt from The Missouri Botanical Garden's Shaw Nature Reserve: 85 Years of Natural Wonders *by Cindy Gilberg and Barbara Perry Lawton*

The Shaw Nature Reserve, known today as the region's premier resource for environmental values and education, had its origin in an environmental fiasco of the early 1900s. Plants, as well as people, were suffering from the lack of fresh air and sunshine due to the thick blanketing of soft-coal smoke in the region. In St. Louis, the smoke became so dense that streetlights were needed at noon. During one particularly bad period, experts estimated that each St. Louis resident inhaled fifteen tablespoons of soot over the five-day period.

Soot particles and sulphuric acid injured plant life, and the very existence of the Missouri Botanical Garden was threatened. Severe damage to plant collections, both outdoors and in the greenhouses, was reported as early as 1917. Because of the risk especially to the Garden's valuable commercial orchid collection, the Missouri Botanical Garden Board of Trustees began thinking about acquiring rural property….

In 1923, the Garden's Board decided to maintain the city garden with its scientific and educational features, but to procure a large tract of land west of the city, well beyond the pall of industry, to relocate and save the orchid and other plant collections from the effects of the air pollution....

Looking for possible locations within a reasonable distance from St. Louis, they spent two years seeking a site…. After over a year of investigating properties, the search committee focused on Gray Summit farm country.

First named the Gray Summit Extension, the property was not originally open to the public. Work began at once on three projects of great priority—the orchid greenhouses, the Pinetum, and the tree nurseries…. The orchid collection moved to a new greenhouse complex on the site in 1927, and within six months, the improvement in its condition was described as little short of phenomenal. The success was due to unpolluted air and greater exposure to the sun as well as to the exclusive use of rainwater on the plants.

To read more, purchase your copy of the *Missouri Botanical Garden's Shaw Nature Reserve: 85 Years of Natural Wonders*, available now at the Visitor Center Bookstore at the Shaw Nature Reserve and at the Garden Gate Shop.

Sophia M. Sachs
Butterfly House

HOT! HOT! HOT!
Happenings at the Butterfly House

photo by Mark Deering

March Morpho Mania

> It may be literally freezing cold outside, but at the Sophia M. Sachs Butterfly House, things will be heating up this winter.

Hot! Hot! Hot!
Saturday and Sunday, January 29 and 30, 11 a.m. to 2 p.m.
Shed your winter coats for a toasty family fun weekend at The Butterfly House. You'll feel transported to a faraway isle strolling through the 85-degree tropical conservatory and listening to live steel drum music. Kids ages 3–8 will have a great time creating bug-tastic crafts and playing games. Little ones can even build sandcastles in the perennial favorite toddler sandbox. Activities are included with regular admission.

Tropical Conservatory Closing for Annual Maintenance
The Tropical Conservatory will be closed February 1–4 for annual tree pruning and maintenance. The exhibits in our Central Hallway and the Madame Butterfly Gift Shop will remain open, with no charge for entry, while the Conservatory is closed.

March Morpho Mania®
Our annual favorite returns! Immerse yourself among more than 3,000 brilliant blue morpho butterflies in the Tropical Conservatory all month.

Education

photo by Donna Dupske

The Butterfly House's Education Department offers two options for Scouts and other children's groups. First, enhance a self-guided tour with an activity booklet, filled with age-appropriate word games and puzzles to complete as children study the insects and other animals on display. The accompanying patch serves as commemoration for your visit.

Butterfly House
CHESTERFIELD, MO

For a more involved visit, consider bringing a Junior Girl Scout troop or Webelos Boy Scout den to the Butterfly House for the *Case of the Dismembered Cricket*. After being sworn in as detectives for the Bug Bureau of Investigation, clues must be collected to solve the caper of crickets missing from a garden.

Call (636) 530-0076 ext. 13 for details and to place a reservation.

photo by Mark Deering

Madame Butterfly Gift Shop

Visit the Madame Butterfly Gift Shop to find a large selection of the Arthur Court Designs Butterfly Collection aluminum servingware. Each piece is individually crafted and polished by hand. Through December 31, you will receive free gift wrap for each Arthur Court item purchased at the Butterfly House.

PUJOLS
5
JOLS
ROLE
2

photo courtesy of the St. Louis Cardinals

The St. Louis Cardinals' "4 A Greener Game" initiative is a sustainable business champion! The RCGA will launch the Green Business Challenge 2011 in February, inviting new participation and advanced options for veteran Green Teams. To learn more, visit www.stlouisgreenchallenge.com.

Sustainability in Business

Local Firms Grow Green with the Garden

by Jean Ponzi, Green Resources Manager

Over the past year, the Missouri Botanical Garden has been working with area business leaders to strategically implement sustainable practices within corporations, utilities, universities, nonprofit organizations, and many kinds of local companies.

The St. Louis Regional Chamber and Growth Association (RCGA) engaged the Garden's EarthWays Center as Resource Advisors for the St. Louis Green Business Challenge. The Challenge encourages companies to adopt sustainable building practices and reduce the environmental impact of their operations. Company Green Teams use a scorecard to earn points by addressing:

- education and outreach
- energy efficiency
- indoor air quality
- waste reduction
- water conservation
- clean transportation options

Each business works to improve on a baseline score over a seven-month period. Across the bi-state region, 61 companies participated in 2010.

"The Green Business Challenge has rooted sustainable policies and practices throughout our business community," says Glenda Abney, director of EarthWays Center. "Each company learns how to 'green up' their purchasing decisions, building operations, and contracted services such as catering and waste collection.

"The Garden's challenge in this collaboration," says Abney, "is to translate what we've learned from plants and their role in ecosystems into strategic, profitable thinking businesses can use every day."

Together with the Garden's Corporate Council, senior staff members host "sustainability taste tests" for Garden Corporate Partners, promoting the benefits to be gained by joining the Green Business Challenge in 2011.

Last spring, the Garden also joined with the consulting firm SustainEdge to conduct Greening Your Organization workshops. Participants addressed sustainability issues specific to each company's needs.

As a partner for the past three years in the *St. Louis Business Journal*'s Heroes of the Planet awards program, the Garden is committed to recognizing businesses that achieve sustainability success stories.

Building on Green Basics

"Sustainable thinking is also making changes in the way many building-industry businesses do their work," says Emily Andrews, Executive Director of the U.S. Green Building Council–Missouri Gateway Chapter, which is headquartered within the Garden. "Our region's leading design and construction companies are transforming their building processes to conserve water, energy, and materials and safeguard occupant health. We are changing how buildings are built."

Locally, more than 100 commercial buildings and homes—including the Garden's Monsanto Research Center—have earned LEED certification through the internationally respected rating system developed by USGBC.

"LEED standards are steadily influencing building codes," says Andrews, "along with products and practices in related industries, such as green cleaning and sustainable landscaping businesses." Learn more at www.usgbc-mogateway.org.

Seen at the Garden

Henry Shaw Medal Dinner

August 20, 2010

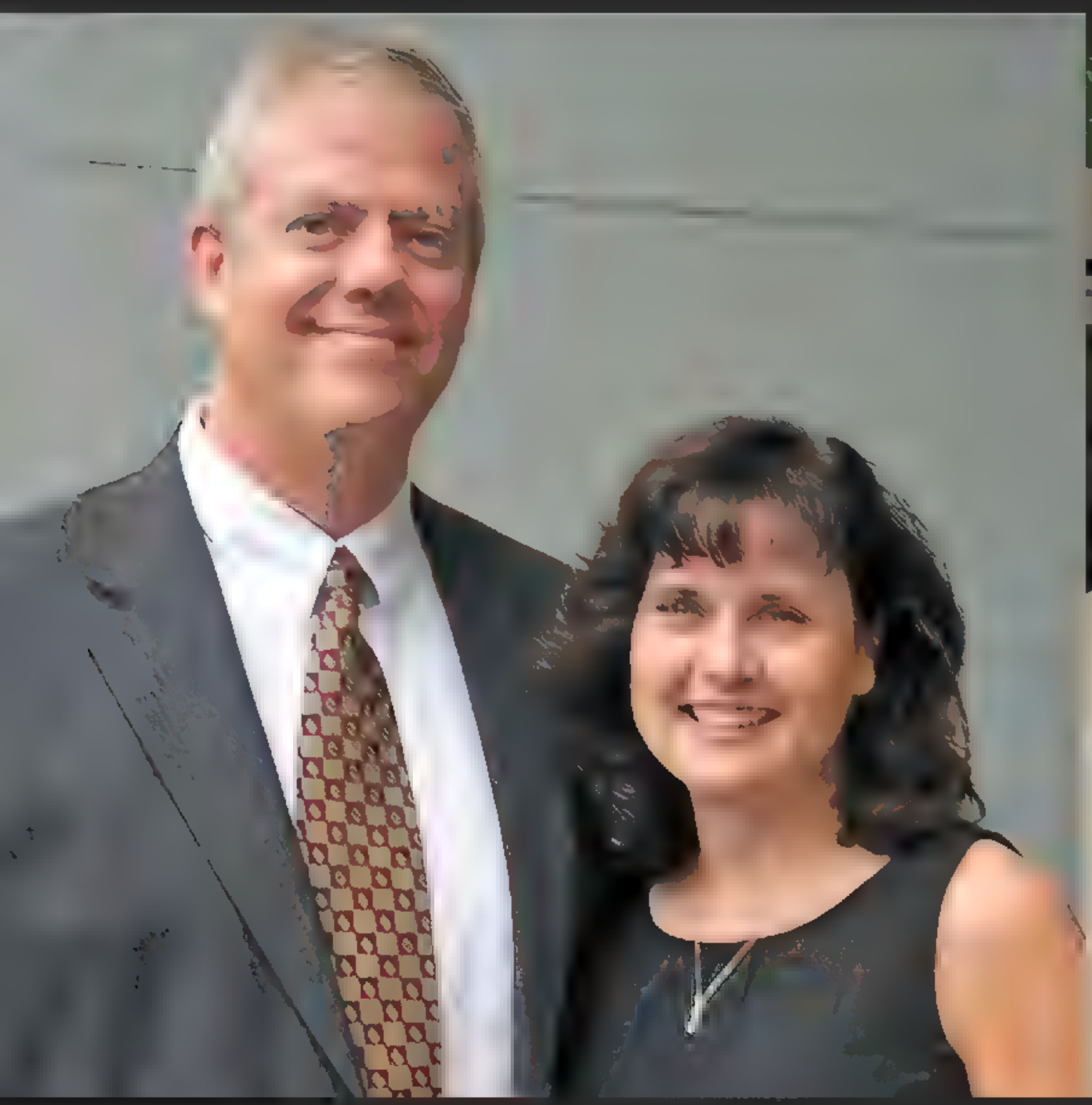
U.S. Senator Christopher "Kit" Bond was the recipient of the 2010 Henry Shaw Medal from the Missouri Botanical Garden. The medal was presented at a dinner on August 20. Awarded since 1893, the medal honors those who have made a significant contribution to the objectives of the Garden, including sustainability, botanical research, horticulture, or education. Through Bond's efforts, the Garden received federal funding for some of its science and conservation initiatives, including construction of the Monsanto Center, and Bond was the first U.S. senator to support investment in plant biotechnology research at the National Science Foundation.

photos by Josh Monken

Arnold Donald, Senator Kit Bond, and Dr. Peter H. Raven

Ed and Celeste Sprung

Kathy Osborn and Don Lents



John and Deb Slagle

Mr. and Mrs. Al and Nancy Koller, Jr. and Dr. Zelema Harris

Dr. Joyce Cacho and Senator Kit Bond

Thad and Betty Simons

Rob and Laura Fraley, and Wes and Diane Herndon

Fest-of-Ale ┆ *October 15, 2010*

Nearly 200 members of the Young Friends of the Missouri Botanical Garden gathered at the Sophia M. Sachs Butterfly House in Chesterfield on Friday, October 15, for the annual Fest-of-Ale. Held in conjunction with the Butterfly House's Owls and Orchids exhibit, the event included beers from Amalgamated Brewing Company, Augusta Brewing Company, Highlands Brewing Company, O'Fallon Brewery, Six Row Brewing Company, and Square One Brewery. Guests sampled brews and enjoyed Cajun-themed food while listening to the Pennsylvania Slim Blues Band. Six Row won the Young Friends Cup for favorite local brewery.

photos by Dave Merritt

photo by Brian Mueller

Tributes

July through September 2010

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin*. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

In Honor of

Mr. and Mrs. Robert W. Abrams
Mr. and Mrs. Richard Halpern

Mr. and Mrs. Dan M. Bainter
Mrs. Rita M. Huskey
Mr. and Mrs. Arthur Parrish

Dr. and Mrs. Walter F. Ballinger II
Mr. and Mrs. David C. Farrell

Mr. Bourne Bean
Mrs. Lilly Ann Abraham
Mr. and Mrs. Raymond W. Peters II

Mrs. Ruth Bettman
Mr. and Mrs. Paul T. Putzel

Charlotte M. Brown
Mary Deibel

Dr. James T. Chamness
Mr. and Mrs. Raymond W. Peters II

Mrs. Sally Davidson
Ms. Isabelle C. Morris

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Mrs. Joseph Ruwitch
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Mr. and Mrs. George H. Wirth
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Mr. George Yatskievych
Oakville Garden Club

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Mr. and Mrs. Alfred E. Long

Mrs. Dorothy Armbruster
Ms. Erna K. Hiles
Mr. and Mrs. Ken Liscom
Southwest Nephrology

Mr. B. L. Bearman
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Mr. Toby Mechem
Jon and Joann Schmuke

Mr. Ronald Dempsey
Mrs. Cherie Miles

Miss Mary K. Deppe
Ray and Erma Kersting

Mrs. Johanna Dougherty
Mr. and Mrs. Robert E. Haddix

William and Roberta Eddy
Mr. Thomas J. Wilhite

Mr. Chip Evans
Ms. Shirley Ciegel

Mr. Edgar T. Farmer
Ms. Janet Espenschied
Ms. Barbara Field
Mr. and Mrs. Donald Finke
Ms. Heather Healy
Mr. Stephen C. Hiotis
Mr. and Mrs. James Josef
Mr. and Mrs. Bert Kembitzky
Mr. and Mrs. Rudolf Kembitzky
Ms. Marjorie Lange
Mr. and Mrs. Peter A. Lecho
Alan and Marty Lemley
Mrs. Mary Lou Mayer
McMahon-Berger
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Mr. and Mrs. Andrew Seitz
Mr. Larry D. Steelman
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Mr. and Mrs. Jerry Warhoover
Mr. and Mrs. Mike Welch
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The Flanders Family

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Dr. and Mrs. Richard B. Whiting

Mr. Vincent Italian
Ms. Nadine Wallenstein

Virginia Cornwell Huette Johnstone
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Betsy Fitz and Leslie Holland

Mr. John M. Kane
Mr. Howard J. Wilkinson, Jr.

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Mr. Jonathan Kovac

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Mrs. Mary Jo Pini

Mr. Martin R. Meagher
Mr. and Mrs. George A. Schindler

Rev. and Mrs. Maynard Midthun
Melanie Redler and Lew Prince

Samuel Michael Miller
Jennifer, Tom, Max, Ben and Natalie Hillmann

Mrs. Gloria Mills
Mr. and Mrs. Neil Bartnett
Brydon, Swearengen & England
Mrs. Ann Case
Mr. Robert Clayton
Dr. William H. Danforth
Brian D. Delany and Lynn Paine
Mrs. Natalie R. Dohr
Finnegan, Conrad & Peterson, L.C.
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Mr. Albert S. Rose
Mr. Gerard K. Sandweg, Jr.
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Mr. and Mrs. Richard D. Schreiber
Dr. and Mrs. E. Robert Schultz
Mr. and Mrs. David S. Slavkin
Mrs. Betty Smith
The Soffer Family
Dale and Maureen Swihart
Mr. and Mrs. W. S. Walch
Mr. and Mrs. Philip B. Wright

Mr. Joseph Moise
Mr. and Mrs. Walter Kube

Mrs. Edna G. Moore
Mr. and Mrs. Richard Arnold

Mr. Edward B. Mower, Jr.
Mr. and Mrs. Alexander M. Cornwell, Jr.
Dr. and Mrs. Michael Creer
Mrs. Arthur C. Hiemenz, Jr.
Ms. Clara H. von Gontard Steinlage

Mrs. Lucy Mueller
Mrs. Leslie Clark
Mrs. Eleanor W. Ellis
David Flinn and Wally Whelan
Mr. and Mrs. Kohl Handlan
Mr. and Mrs. Ken Hartley
Mr. and Mrs. Frank Kaveney
Mrs. Mike J. Lacy
Lewis, Rice & Fingersh, L.C.
Mr. and Mrs. Thomas A. Rogers
Ms. Martha L. Schuler
Dr. and Mrs. William H. Sheffield
Joan and Mel Stephens
Mary Van Horm-Gumerman
Mr. and Mrs. Douglas H. Wilton
Ms. Sue Ann Wood Poor
Mr. and Mrs. Robert Yarbrough

Mr. Cletus Mueth
Mrs. Joan M. Mueth

Mrs. Courtney Bean Obata
Mr. Clarkson Carpenter III
Mr. and Mrs. David C. Farrell
Mr. and Mrs. Richard C. Holton
Dr. and Mrs. F. Thomas Ott
Mr. and Mrs. Raymond W. Peters II
Dr. and Mrs. Henk van der Werff
Signe Wilkinson and Jon Landau

Ms. Nancee J. Ott
Ms. Margaret Norris

Mrs. Mary Galt Pettus
Mr. and Mrs. Harvard K. Hecker

Mrs. Margaret Pisoni
Mrs. Lisa Mooney

Mrs. Bernardine W. Powderly
Ms. Lynn K. Silence

Mrs. Joan Goddard Powell
Ms. Elizabeth Heider

Mr. Edwin Rauh
Mr. and Mrs. Ron E. Rauh

Mary Reis
Ms. Helen Dorsey

Ms. Mary Patricia Rezentes
C.T. and Linda Douglas

Mr. H. William Robert
Mrs. Shirley M. Robert

Mabel Roberts
Carrie, Katie, Lauren, Beth, Lara, and Dorian

Mrs. Pauline Roller
Mrs. Donna M Rank

Mr. Milton Royko
Mrs. Helen D. Sutter

Mrs. Rosalind Salniker
Carolyn and Joseph Losos

Dorothea 'Freddie' Sauer
Mr. and Mrs. John E. Evans III
Miss Ann Hubel
Mr. and Mrs. John W. Manganaro
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Ms. Joyce B. Hammons

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Mr. and Mrs. James E. Clark, Jr.

Mrs. Flo Schulz
Mr. and Mrs. John L. Musser

Mr. Louis Scott
Mr. and Mrs. Robert J. Glasscock

Mr. Sanford Segal
Kip, Quinn, and Natalie Kay

Mr. Richard H. Sievers
Nancy Welton and George Lisle

Mrs. Estalee Smith
Ms. Carol A. Gruen

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Mr. Daniel Axelrad
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Ms. Barbara C. Niebruegge
Marvin and Martie Wachs
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Mr. Edwin L. Winkelmeyer

Mr. James Staub
Mr. and Mrs. John A. Yunker

Mr. Walter Taylor
Mr. Harry F. Glenn

Mr. Victor H. Tuckett
Mr. H. Russell Carter

Mrs. Emily Freund Ullman
Melanie and Lew Redler Prince

Mrs. Loretta I. Valentine
Carol North and Nicholas Kryah

Mr. Thomas Vespereny
Ms. Elizabeth S. Finkle

Mr. Charles Walt
Mrs. Ann Case

Mr. Pze-Chen Wang
Mr. and Mrs. Dau-Sing Wang

Mr. John Wannemacher
Ms. Vivien T. Gardner

Mrs. Evelyn M. Weir
Mr. and Mrs. Donald Black
Mr. and Mrs. Larry Keller
Ms. Susan S. Michael
Mr. and Mrs. Wayne C. Weusthoff

Mrs. Reba Faye Weis
Pauline and Harold Lankford
Meschiel and Paul Lankford
Dr. Fallon Maylack
Northland Midamerica Ortho Physicians & Staff
Michael and Amy Stanley

Mrs. Bonnie Whitworth
Betty and Michael Dial
Mrs. William F. Remmert

Emmalea M. Wikete
Judith E. Kassel

Mr. Thomas J. Williams
Ms. Pamela J. Anderson
Mr. and Mrs. Bo Broemmel
Mr. and Mrs. Thomas Carroll
Central Trust & Investment Company, Officers, and Employees
Mr. and Mrs. Philip DeFalco
Mr. and Mrs. John Flynn
James Gutchewsky Family
Mr. and Mrs. Charles A. Heese
Mr. and Mrs. Clifton E. Hopper
Ms. Christine M. Kempf
Mr. and Mrs. Michael Klinkhamer
Mr. Bill Korte
Ms. Regina Krebs
M & I Bank-Directors, Officers, and Employees
Ms. Kate Mulvey
Notre Dame Class of 57
Mr. and Mrs. Keith Province
Dr. and Mrs. David D. Roberts
The Schramm Family
Mr. and Mrs. Robert Williams

Dorothy Koken Wilson
Jeanette L. Lynch

Mrs. Betty N. Witbrodt
Mrs. Helen D. Sutter

Mrs. LaVerne Zeid
Mr. and Mrs. Richard Halpern

Mrs. Dorothy Ziern-Hanon
Ms. Clara H. von Gontard Steinlage

photo by Brian Mueller

Create a legacy

Leaving a bequest to the Garden creates a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call (314) 577-9495 for further information, or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

Look for camellias to return to the Linnean House after spring 2011.

photo by Christine Siebert

Members' Entry Court

Bricks dedicated at the Garden,
July through September 2010.

Engraved clay bricks and signature bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit www.mobot.org.

Signature Bronze Bricks

Helen Marie Marx
Ms. Jennifer L. Anger
Mr. and Mrs. William L. Anger
Ms. Virginia Foshage Boivin
Mr. Carleton J. Dailey and Ms. Eileen B. Dailey
Ms. Maureen L. Dailey
Mr. and Mrs. Richard D. Faivre
Ms. Janine M. Fleischman
Ms. Susannah D. Fuchs and Mr. Alex Bornstein
Ms. Nevena Ganeva
Mr. and Mrs. Art Gross
Ms. Ann Hogan
Ms. Mary Anne Jerabek
Ms. Mary Susan Marx
Mr. Nick Mason
Mrs. Carol A. Mertens
Mike and Melba Schafer
Ms. Janice M. Schuette
Mrs. Phyllis A. Seidler and Ms. Kathy Brand
Mr. and Mrs. Anthony J. Sestric
Mr. and Mrs. E. L. Vander Pluym

Engracia Tabernilla Morales
Edmond and Brenda Alizadeh
Ms. Kathi Alizadeh
Mr. Ignacio G. Alvear and Ms. Isabel Fernan
Mrs. Linda L. Arentz
Mr. Steve Bierschenk
Mr. and Mrs. James A. Boaz
Raelynn & Kelly Chase
Mr. and Mrs. Thomas J. Cini
Mr. and Mrs. James M. Fiala
Mr. and Mrs. William E. Fiala
Mr. and Mrs. Roger Hornsby
Mrs. Monica Jazbani
Tom and Thomasine Joyce
Tom and Aurora Lennartz
Mr. and Mrs. Peter Lombardo
Ms. Ana Maria Luengo-Romero
Mr. and Mrs. Richard Lyell
Mr. and Mrs. Leroy E. Mitchem
Mrs. Carolina Olivari
Mr. and Mrs. Samuel W. Panos
Mrs. Mary E. Sacquitne
Mr. and Mrs. William Spuhl
Ms. Cindy Wiggins

Cletus B. Mueth
Mrs. Joan M. Mueth

Sandra Kay Roemerman
Mr. and Mrs. John Albert
Mrs. Carol L. Arburua
Mrs. Joyce Bauer
Mrs. Donna P. Baum
Ms. Connie Bredensteiner
Ms. Kathleen Cofield
Mr. and Mrs. Tony Dehntjer
Ms. Mary Ann Frain
Mr. Joseph M. Fuchs, Jr.
Ms. Suzanna J. Hall-Barry
Mrs. Sandra Haun
Mr. and Mrs. Robert J. Herleth
Ms. Janice S. Hobson
Mr. John Howard
Mrs. Barbara Huelsing
Mrs. Valerie J. Kinealy
Mrs. Karen Kleiboeker
Ms. Margie A. Knowles
Ms. Ruth Lauck
Mr. and Mrs. Jim Lester
Mrs. Susan E. Mangus
Ms. Diane Lynn McKee
Mr. Frederick Moore
Ms. Marigene Mueller
M. E. Norton-Hayes
Ms. Kathryn Norvell
Mrs. Janice A. Nowak
Ms. Cathy Pitcher-Mont
Ms. Marla G. Prince
Mrs. Diane Ritchie
Ms. Linda G. Schmieder
Ms. Jeri L. Seaman
Mrs. Eileen Van Steenwyk
Mrs. Lynne F. Wilson
Dr. and Mrs. Patrick R. Wilson, D.D.S.

Engraved Clay Bricks

Ralph and Irene Dobberstein
Mr. Charles T. Shepard

Yvonne and John Hancock
Mr. and Mrs. Scott Hancock

Edward S. Kessell
Mrs. Florann Kessell

Barbara Jo Kure Klein
Ms. Mary Beth Morrison

Ruth H. Larsen
Charles and Elfriede Berger
Karl Berger
Kathe Berger
Nancy Berger
Tom and Cathy Berger
Steve and Janet Scherrer

Esther Ann Lieberman
Ms. Lynda Lieberman

A. Vernon Montgomery
Mrs. Jean A. Montgomery

Kevin and Liz Moore
Mr. and Mrs. Chris Jamruk

Margaret Oakley
Friends at Shriners Hospital for Children

Nelson Sansing
Ms. Jacquelyn Landau

Agnes H. Schneier
Mr. John Schneier
Mr. Robert Schneier

Myron S. Taich
Drs. Joseph A. and Alison Bedell
Mr. and Mrs. Peter Jeanmougin
Mr. and Mrs. Adam Taich

Nancy von Brecht and Andris Jursevskis
Ms. Ann T. Eggebrecht

Sophia M. Sachs Butterfly House Tributes & Pavers

To learn more about these opportunities, call (314) 577-0291 or visit www.butterflyhouse.org.

Tributes and Pavers dedicated at the Sophia M. Sachs Butterfly House, July through September 2010.

Tributes

In Honor of

Sophia M. Sachs Butterfly House
The Village Garden Club

In Memory of

Mrs. Ann P. Lieberman
East Shore Partners
Kirk and Alice Fritsch
Penny and Tom Garrecht
Debbie and Ted Lieberman
St. Timothy's Episcopal Church

Pavers

Garrett and Gage Brothers
Ms. Sara A. Brothers

Carol R. Flood
Kevin and Diane Flood
Sophia M. Sachs Butterfly House Staff and Volunteers

Edward S. Kessell
Mrs. Florann Kessell

Shirley M. McDermott
Mrs. Kristin D. Johnson

Prmila and Harish Mital
Ms. Vipul K. Garg

Ashley Tapperson
The Hobbs Family

Virginia Vanderpool
Joe and Dee Gibbons
Margo Hodge
Ken and Diane Kohlfeld
Milt and Charlotte Kupferer
Ken Maloney
Barbara Maschmeyer
Lee Reineri
Rich and Monika Roberts
Sam and Elaine Stipanovich

Ruth Vester
Mrs. Kathy J. Vester

Gorgeous Gifts

We have something special for everyone on your list. Come see the beautiful array of gifts from blooming plants to fine chocolates at the Garden Gate Shop, where members always enjoy a discount.

Virginia McNaughton
Lavender

photo by Kimberly Bretz

GARDEN
GATE SHOP.ORG

All proceeds benefit the Missouri Botanical Garden.

December Events

Visit www.mobot.org for the latest information.

photo by Josh Monken

Christmas Carols in the Garden

Saturdays and Sundays, December 4–19, 1 to 5 p.m. ☺
Ridgway Visitor Center, Kemper Center for Home Gardening, and Spink Pavilion
Listen to festive holiday carols, visit Santa, meet Rudolph, enjoy chestnuts roasting on an open fire, and more. Included with Garden admission.

Story Tram | *1:30, 2:30, and 3:30 p.m.*
Take a tram ride with a Christmas elf and listen to "'Twas the Night Before Christmas" told from Garden founder Henry Shaw's perspective. A cookie and small gift are included. $15 per person ($10 Garden members), in addition to Garden admission. Space is limited; purchase tickets in advance at www.mobot.org.

✿ Breakfast with Santa

Saturday and Sunday, December 4–5, 8 to 10:30 a.m., Monsanto Hall
Visit Santa as he makes his yearly stop at the Garden. Bring a pair of mittens or a child's hat to donate to charity. $20 per person; children under age 2 are free. Seating is limited. For information, call (314) 577-5154. Reservations required; call (314) 577-9570 or register online.

Gardenland Express ☺

through January 2
All aboard! Watch as G-scale model trains travel through the Appalachian Trail. Garden admission plus $5; free for members. *Presented by Wells Fargo Advisors. Additional sponsorship support by CBIZ & Mayer Hoffman McCann P.C., Central States Coca-Cola Bottling Company, Ms. Marian L. Herr, and Hobby Station.*

✿ Members' Preview

Wednesday, December 1, 5 to 8 p.m.
This night includes music, holiday shopping in the Garden Gate Shop, the holiday wreath display, a cash bar and special dinner menu in Sassafras. *Members' Premiere and Preview are presented by Famous Footwear.*

Holiday Nights

Thursday evenings, December 2, 9, and 16, 5 to 8 p.m.
Gardenland Express is festively lit for Thursday evening viewing! Enjoy the holiday flower and train display and the custom creations decking the walls of the Holiday Wreath Auction. Dine in Sassafras, serving a full dinner menu; a cash bar will also be available. Shop for unique holiday gifts at the Garden Gate Shop. Ridgway Visitor Center (please note: Garden grounds are closed). $5 adults and children; free for Garden members.

Kwanzaa: First Fruits ☺

Wednesday, December 29, noon to 4 p.m., Ridgway Visitor Center
This contemporary African-American holiday celebration includes a ceremony, storytelling, craft and jewelry displays, and authentic African drumming and music.

Deck the Halls ☺

through January 2
- Holiday Wreath Auction, Ridgway Visitor Center
- Victorian Christmas, Tower Grove House
- Holiday Trimmings, Kemper Center for Home Gardening
- Hand-decorated "gourdament" sale, January 3

Hiking with Rover

Sunday, December 12, 2 to 4 p.m., Shaw Nature Reserve
Take your favorite canine for a long walk led by Reserve staff. This is a rare opportunity to spend time with your pooch in an area where dogs are normally not allowed. Your four-legged friend must be socialized (nice to all other dogs and people) and remain on a six-foot leash at all times. Owners must pick up and properly dispose of all waste. $7 per person. Advance registration required; www.mobot.org/classes or (314) 577-5140.

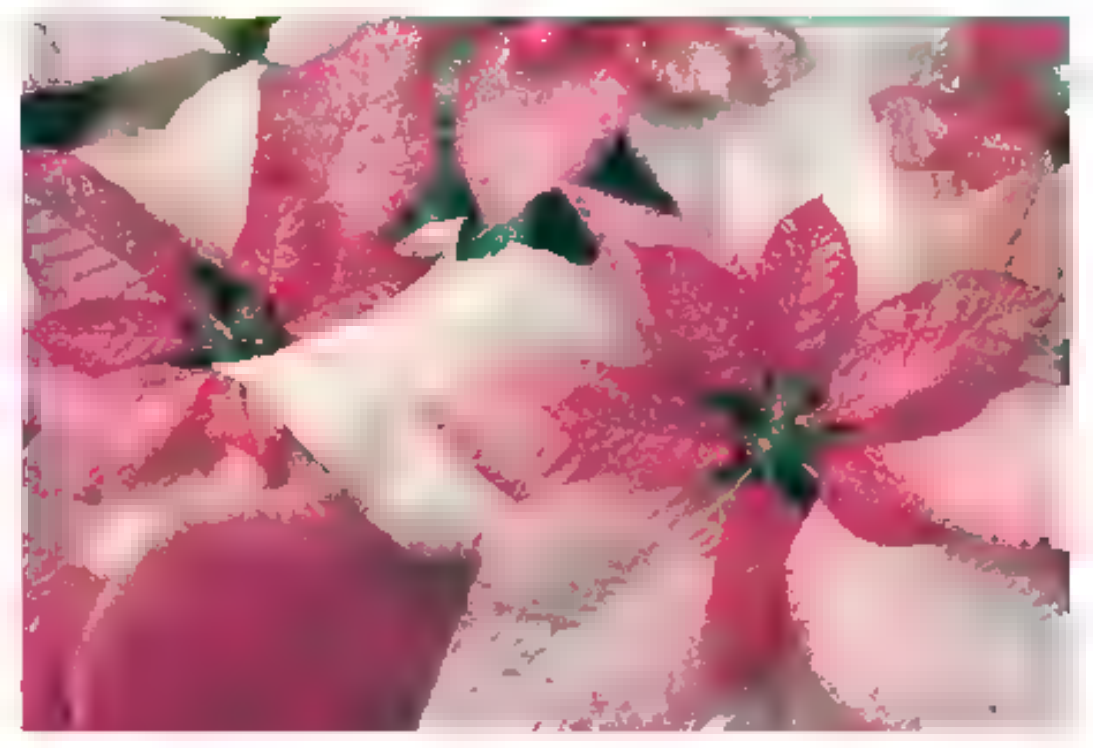
☺ = fun for families
✿ = members' event

December 2010

average temperature: low 25.8°, high 42.0°
average precipitation: 2.86 in.

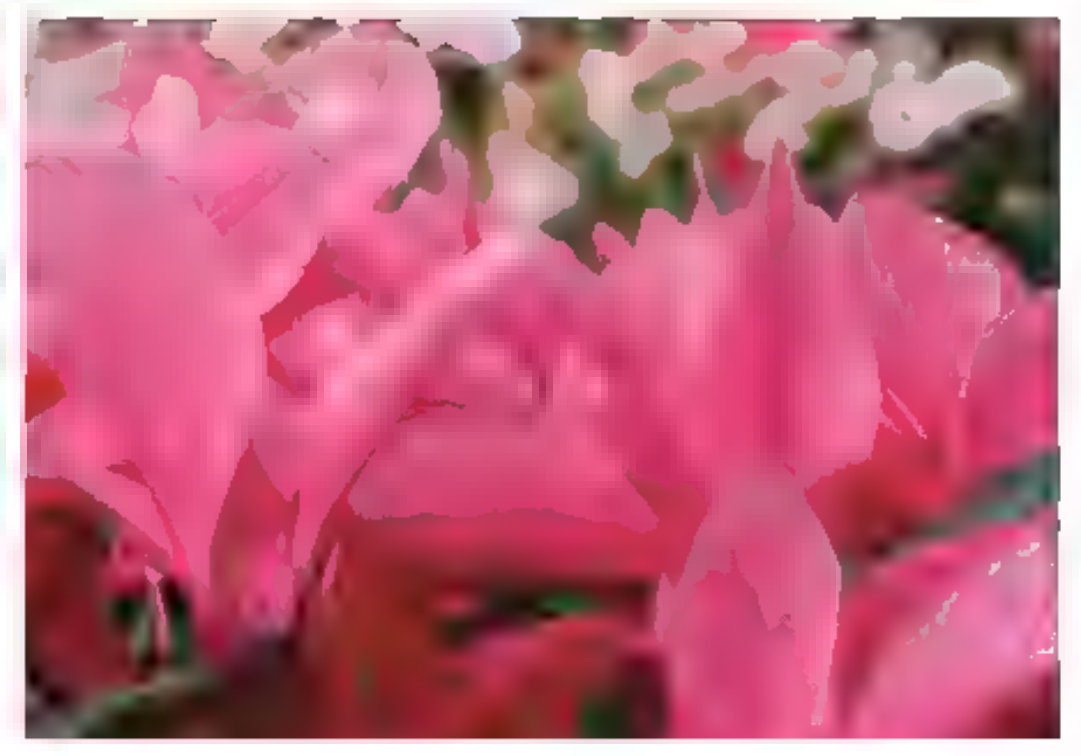
What's in bloom? download the podcast at www.gardeninghelp.org

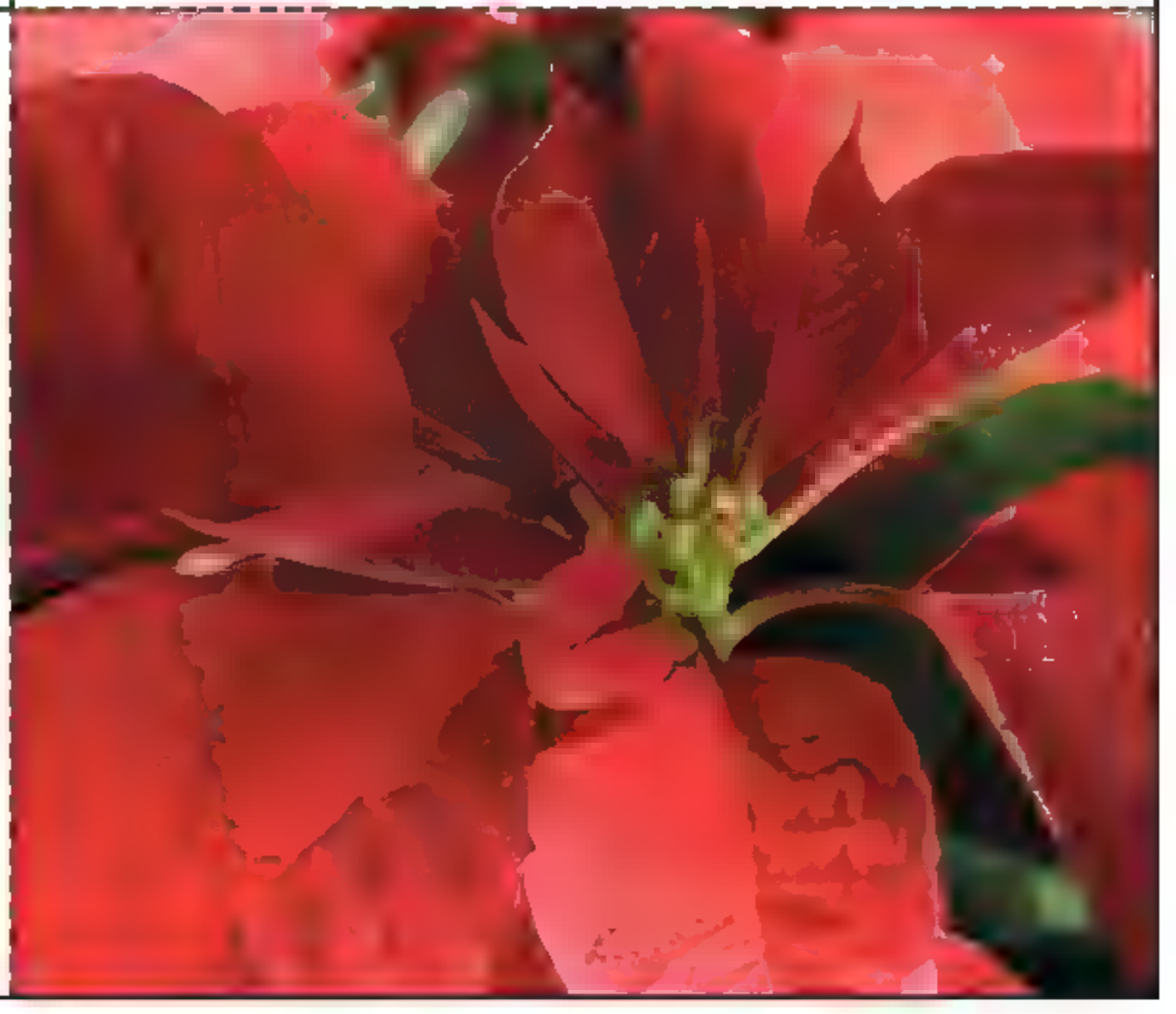
coralberry


poinsettia

eulalia

winterberry


cyclamen

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
 Gardenland Express Holiday Flower & Train Show Nov. 24–Jan. 2 *Along the Appalachian Trail* Presented by Wells Fargo Advisors			01 CHANUKAH ✿ Gardenland Express Members' Preview. 5 to 8 p.m. RVC 🟩 Holiday Wreaths from Natural Materials. 6:30 p.m. $☎ SNR 🟩 Members' 20% off sale. GGS	02 🟩 Holiday Wreaths from Natural Materials. 6:30 p.m. $☎ SNR 🟩 Holiday Nights. 5 to 8 p.m. $ RVC 🟩 Members' 20% off sale. GGS	03 🟩 Holiday Decorating overnight. 7 p.m. $☎ SNR 🟩 Members' 20% off sale. GGS	04 ✿ Breakfast with Santa. 8 to 10:30 a.m. $☎ MH 🟩 Christmas Carols in the Garden. 1 to 5 p.m. RVC, KC, SP 🟩 Story Tram. $ 🟩 Members' 20% off sale. GGS
05 ✿ Breakfast with Santa. 8 to 10:30 a.m. $☎ MH 🟩 Story Tram. $ 🟩 Christmas Carols in the Garden. 1 to 5 p.m. RVC, KC, SP 🟩 Members' 20% off sale. GGS	06 🟩 Eating Lower on the Food Chain. 6:30 p.m. $☎ KC	07	08	09 🟩 Garden Buds: Plants as Presents. 10 a.m. $☎ 🟩 Holiday Nights/Corporate Partners Holiday Nights. 5 to 8 p.m. $ RVC	10	11 🟩 Christmas Carols in the Garden. 1 to 5 p.m. RVC, KC, SP 🟩 Story Tram. $
12 🟩 Christmas Carols in the Garden. 1 to 5 p.m. RVC, KC, SP 🟩 Story Tram. $ 🟩 Hiking with Rover. $☎ SNR	13	14 🟩 Cashing in on Home Comfort. 6:30 p.m. $☎ JE	15	16 🟩 Holiday Nights. 5 to 8 p.m. $ RVC	17	18 🟩 Christmas Carols in the Garden. 1 to 5 p.m. RVC, KC, SP 🟩 Story Tram. $ 🟩 Great Green Adventures: Trees with Winter Coats. 10:30 a.m., 1:30 p.m. $
19 🟩 Christmas Carols in the Garden. 1 to 5 p.m. RVC, KC, SP 🟩 Story Tram. $	20	21	22	23	24 CHRISTMAS EVE 🟩 Garden closes at 4 p.m.	25 CHRISTMAS DAY 🟩 Garden is closed.
26 KWANZAA	27	28	29 🟩 Kwanzaa: Festival of the First Fruits. 12 to 4 p.m. RVC.	30	31 NEW YEAR'S EVE 🟩 Garden closes at 4 p.m.	

photos by Kat Douglas, Jack Jennings, Heather Marie Osborn, Christine Siebert, and Erin Whitson

January Events

photo by Kyle Spradley

Orchid Show 2011

January 29 through March 27 ☺

An eclectic mix of Maya-themed accents infuses this year's lush tropical display of 800 blooming orchids from the Garden's world-class collection. The Orchid Show is the only time of year when a vast, rotating selection of orchids from the Garden's historic collection is available for public viewing.

Open Mondays through Fridays from 9 a.m. to 3 p.m. (last weekday entry at 2 p.m.); open Saturdays and Sundays from 9 a.m. to 5 p.m. Garden admission plus $5; free for Garden members.

✿ **Members' Preview** | *Friday, January 28, 5 to 8 p.m.*
This special night just for members includes shopping in the Garden Gate Shop, a cash bar, and special dinner menu in Sassafras.

Visit www.mobot.org for the latest information.

Around the World Wine Dinner

Friday, January 21, 6:30 p.m.
Travel to wine-producing regions around the world through a four-course dinner hosted by a wine expert. Chefs from Catering St. Louis will create the regional menu, pairing each course with a different wine from the same region. Dinners will be served at various locations around the Missouri Botanical Garden and are held on the third Friday of the month. $55 per person, plus gratuity. Advance reservations required; (314) 577-0200.

Closed for the season, January through March

- Doris I. Schnuck Children's Garden
- Narrated tram operations
- Tower Grove House
- Terrace Café at Kemper Center for Home Gardening

Seasonal operations will resume on April 1.

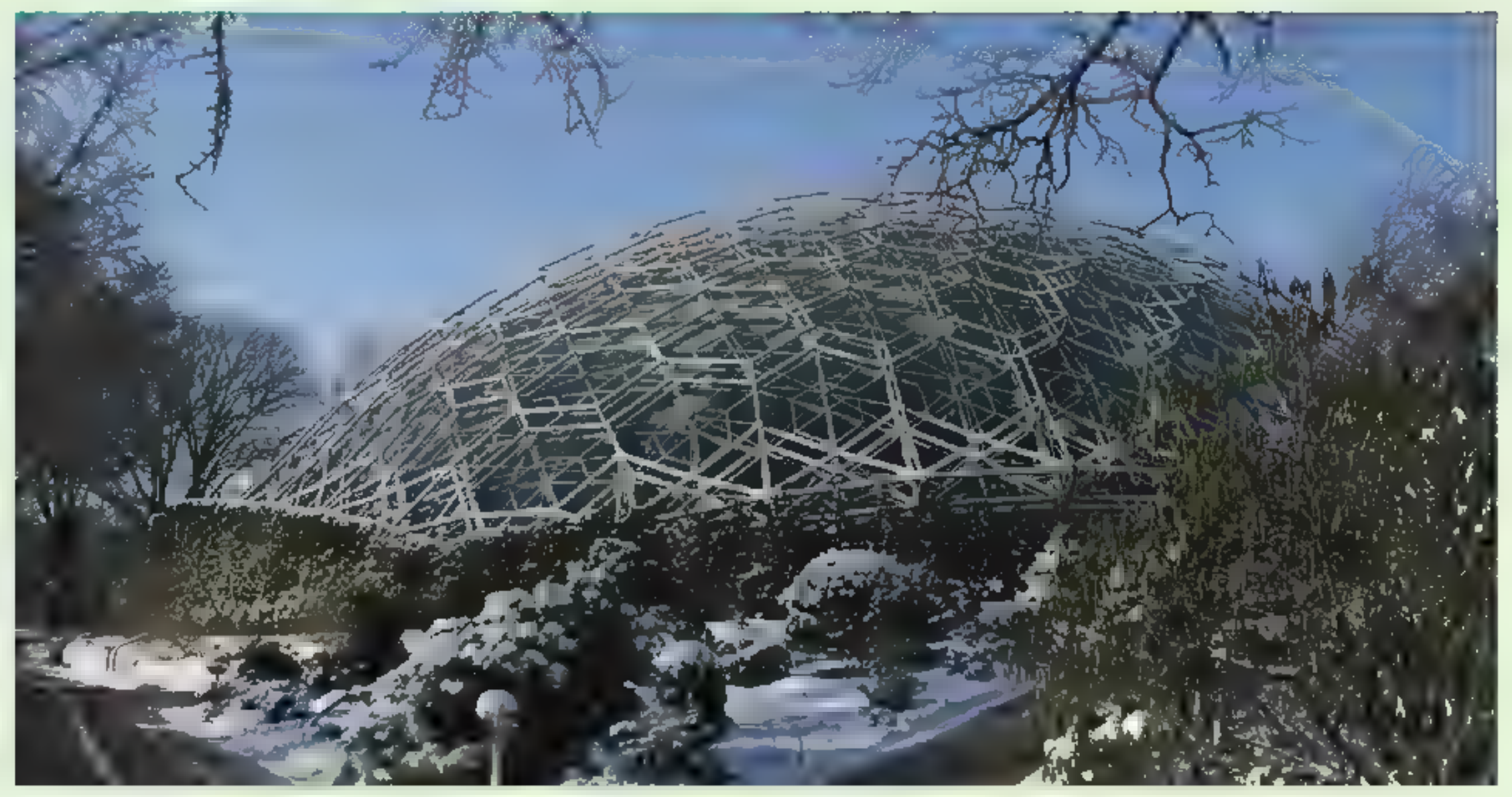


photo by Kyle Spradley

Celebrate Rainforests and 50 Years of the Climatron® ☺

Through February 27, Brookings Interpretive Center
Drop in and enjoy interactive learning games, puppet theaters, role-playing, puzzle-solving, trivia challenges, and "tropical traditions" hand-crafted souvenirs or gifts to take home. Dig deeper into the stories behind the science as you trek across the globe to learn about plants, people, and places that Garden scientists and conservationists are working to protect and preserve.

☺ = fun for families
✿ = members' event

photo by Jack Jennings

January 17 through May 27:

Please note: The Ridgway Visitor Center will close early at 3 p.m. on weekdays for repairs to the barrel vault roof panels. Garden grounds will remain open until 5 p.m. daily throughout construction. Monday through Friday after 3 p.m., visitors can access the Garden grounds and the Garden Gate Shop through alternate entrances on the east side of the Visitor Center. Sassafras will close at 3 p.m. on weekdays, with lunch served until 2 p.m. The Visitor Center will remain open until 5 p.m. on weekends.

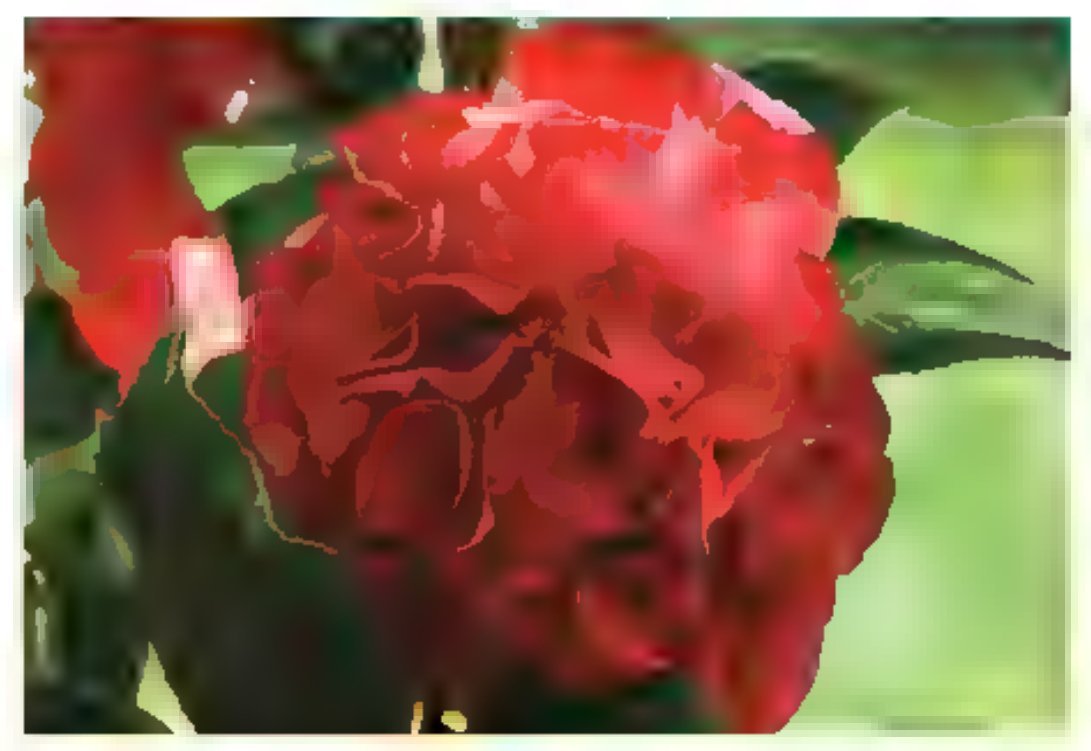
January 2011

average temperature: low 21.2°, high 37.9°
average precipitation: 2.14 in.

What's in bloom?

download the podcast at www.gardeninghelp.org

begonia


camellia

pansy

powder puff

witch hazel

2011
ORCHID
SHOW
January 29
to March 27

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						01 NEW YEAR'S DAY
02 Last day of Gardenland Express Holiday Wreath Auction ends	03	04	05	06	07 Basket-Making Overnight. 7 p.m. $☎ SNR	08
09	10	11 Introduction to Permaculture. 7 to 8:30 p.m. $☎ CBEC	12 Cashing in on Home Comfort. 6:30 to 8 p.m. $☎ CBEC	13 Native Plant School: Control and ID of "The Worst" Invasive Woody Plants. 1 p.m. $☎ SNR	14	15
16	17 MARTIN LUTHER KING, JR. DAY	18 White Roofs/Green Roofs. 6:30 to 8 p.m. $☎ CBEC	19	20 Planning Your New Green Home. 5:30 to 8 p.m. $☎ CBEC	21 Around the World Wine Dinner. 6:30 p.m. $☎	22 Green Parenting. 1 to 3 p.m. $☎ CBEC Introduction to Herbal Soap Making. 9 a.m. $☎ SNR
23	24	25	26	27	28 ✿ Members' Preview Orchid Show. 5 to 8 p.m.	29 Orchid Show opens, through March 27. $ RVC "Hot, Hot, Hot!" 11 a.m. to 2 p.m. BH.
30 "Hot, Hot, Hot!" 11 a.m. to 2 p.m. BH.	31 Power of Plants contest deadline					

photos by Lindsay Moser, Kyle Spradley, Paul Straatmann, and Kevin Wolf

February Events

Visit www.mobot.org for the latest information.

photo by Brent Johnston

Sixth Annual Backyard Bird Festival

Saturday, February 5, 7:30 a.m. to 3 p.m., Ridgway Visitor Center ☺
Bundle up, grab your binoculars, and flock to the Garden for a bird-watching bonanza! Bird watchers of all ages can enjoy a day filled with guided birding walks, live exhibits, identification tips, and informative classes for children and adults of all experience levels. Fees vary based on individual sessions. Advance registration required; www.mobot.org/birding or (314) 577-5140.

photo by Jack Jennings

Valentine's Night Hike

Saturday, February 12, 7 to 10 p.m.,
Adlyne Freund Center, Shaw Nature Reserve
Bundle up and spend the evening under the stars with your sweetheart, friends, or adult family members! Use your senses to enjoy the wonders of a crisp, cool but invigorating winter night at the Reserve. See constellations and planets using a telescope, and enjoy steamy hot beverages and desserts after the hike. $30 per person. Register at www.mobot.org/classes or (314) 577-5140.

✿ Members' Day: A World of Gardens

Tuesday, February 15, 11 a.m.,
Shoenberg Theater
Escape the cold and join Dr. Peter H. Raven as he helps us explore a world of gardens.

* *All Members' Events are free for members unless otherwise noted. On these days, members also enjoy discounts of 10 percent in Sassafras and the Terrace Café and 20 percent in the Garden Gate Shop, Little Shop around the Corner, and the Madame Butterfly Gift Shop at the Sophia M. Sachs Butterfly House.*

Young Friends Present: Trivia Night—Garden Style

Saturday, February 19, Doors at 6 p.m.,
Trivia at 7, Monsanto Hall
Join the Young Friends of the Missouri Botanical Garden for the third annual Trivia Night—Garden Style, a night of good food, fun, and general trivia. Beer generously donated by Schlafly. Soda and water provided. Cash bar. Bring your own food. Seating is limited. Advance registration required. $250 for a table of 10. Call (314) 577-9532 for reservations or register online.

St. Louis Garden Blitz: The Edible Revolution

Saturday, February 19,
9 a.m. to 3 p.m.
Ridgway Visitor Center
Join us for a daylong event featuring keynote speaker Jennifer Bartley, author of *The Kitchen Gardener's Handbook*, and other national and local edible gardening professionals. Produced by the Horticulture Co-op of Metro St. Louis and the Missouri Botanical Garden, in association with the St. Louis Master Gardeners. Pre-registration required; visit www.mobot.org/classes.

Get Growing!

Online registration opens February 1 for a variety of weekday, evening, and weekend spring and summer classes for adults, youth, and families. View a print-at-home catalog and register online at www.mobot.org/classes or call (314) 577-5140.

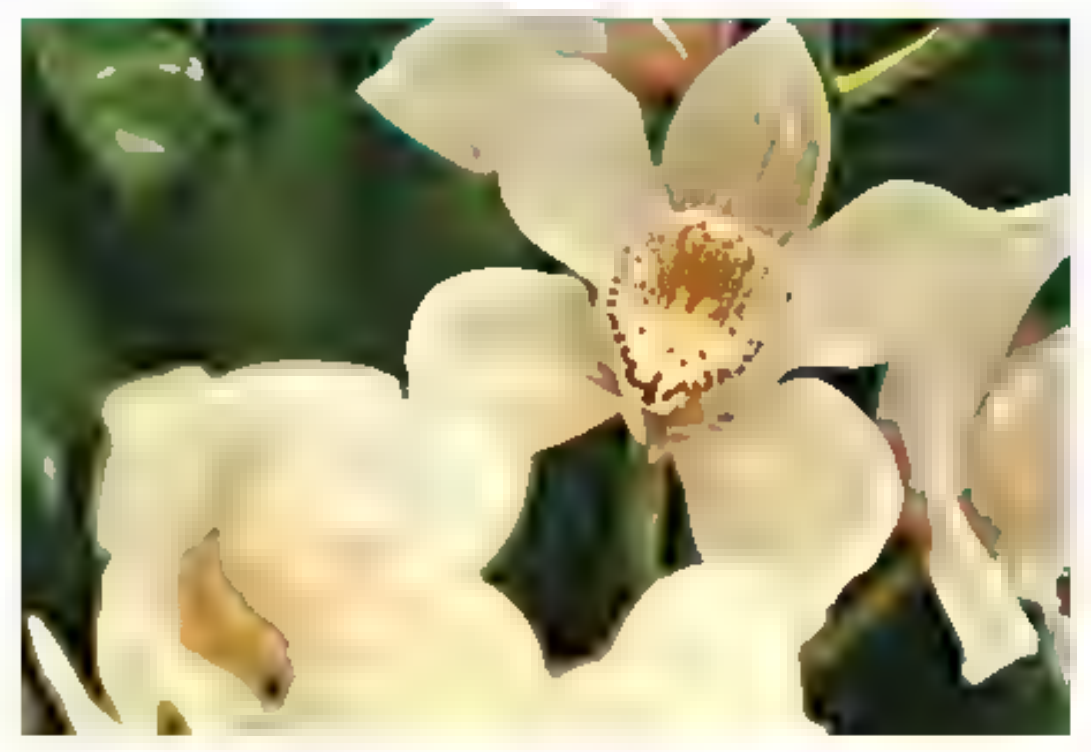
☺ = fun for families
✿ = members' event

February 2011

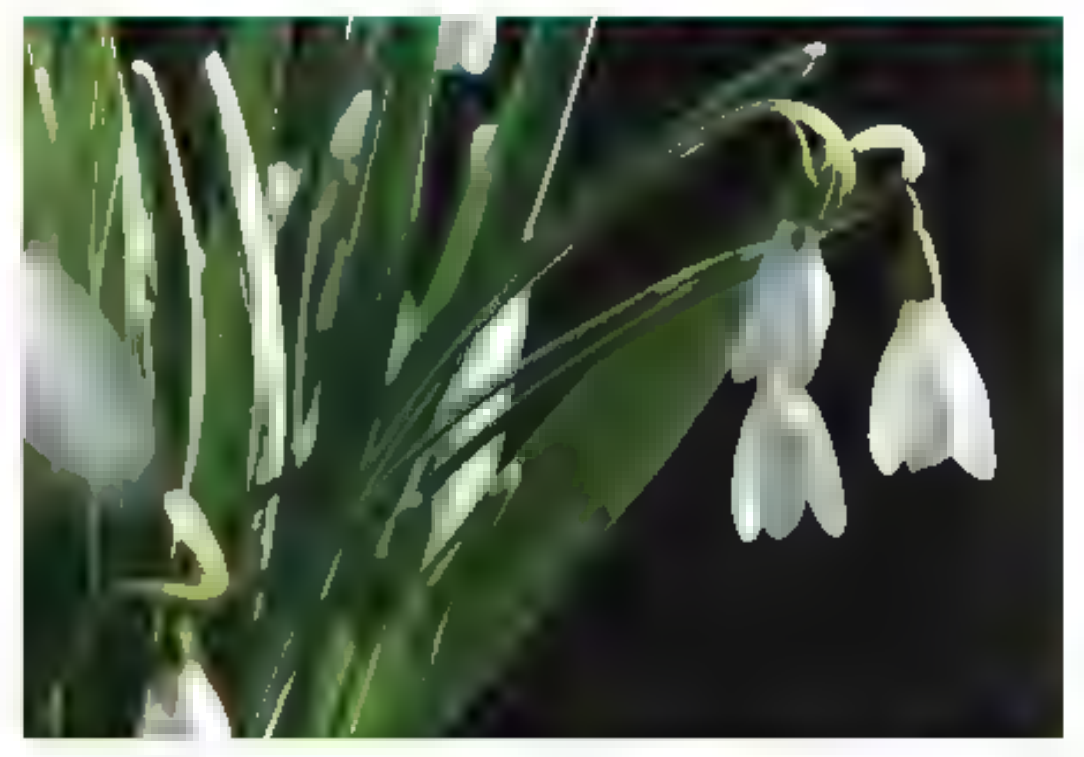
average temperature: low 26.5°, high 44.3°
average precipitation: 2.28 in.

What's in bloom?

download the podcast at www.gardeninghelp.org

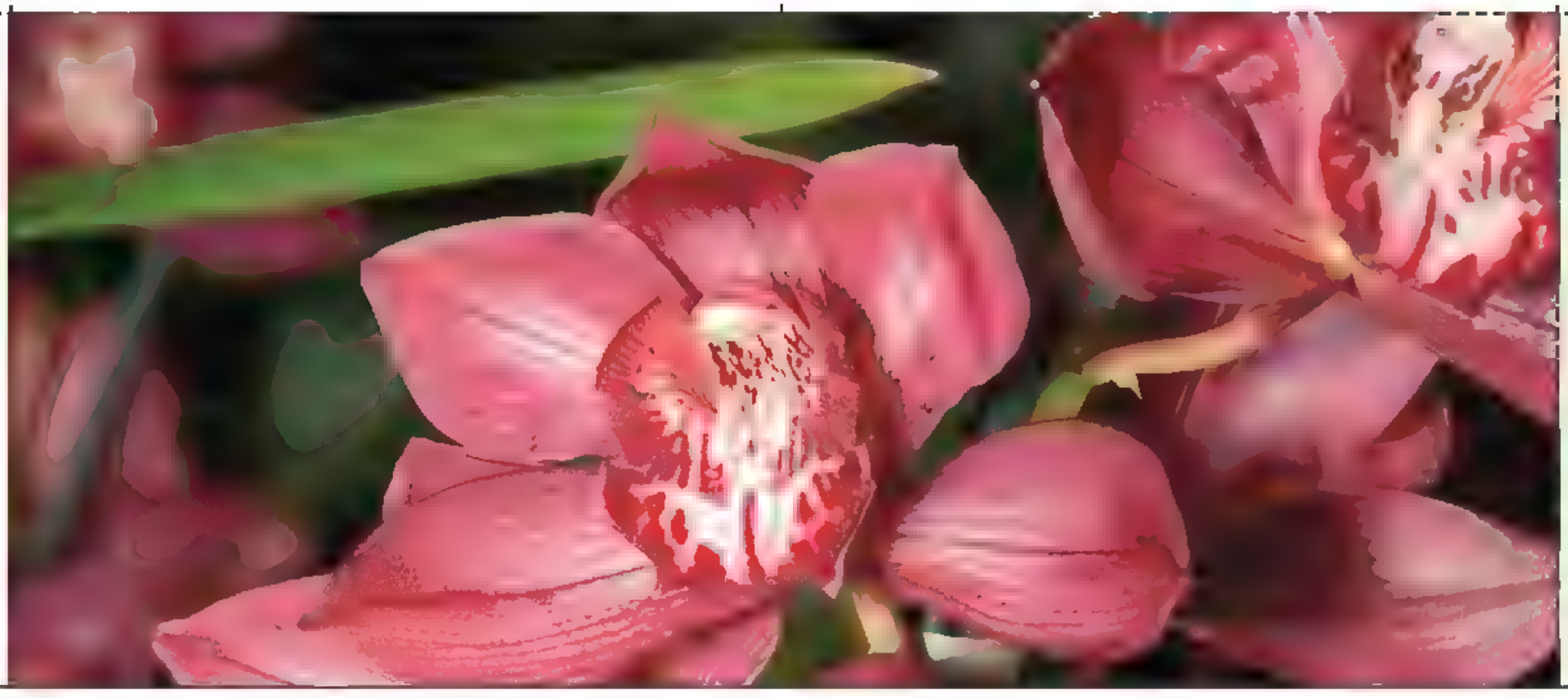

orchid

clerodendrum


snow drop

paperbush

winter daphne

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2011 ORCHID SHOW January 29 to March 27		01 Bugaloo: Nature's Shapes and Colors. 9:30 a.m. BH Butterfly House Conservatory closed for maintenance.	02 GROUNDHOG DAY Butterfly House Conservatory closed for maintenance.	03 CHINESE NEW YEAR Butterfly House Conservatory closed for maintenance.	04 Butterfly House Conservatory closed for maintenance.	05 Backyard Bird Festival. 7:30 a.m. $☎ Craft Saturday. 10 a.m. to 12:30 p.m. BH
06	07	08	09	10 Rain Gardens. 7 to 8:30 p.m. $☎ CBEC Native Plant School: Native Plant Propagation from Seed. 1 p.m. $☎ SNR	11 Native Plant School: Native Plant Propagation from Seed. 1 p.m. $☎ SNR	12 Celebrate the Gospel. 3 to 4 p.m. ST Valentine's Night Hike. 7 p.m. $☎ SNR
13 Bugaloo: Nature's Shapes and Colors. 11 a.m. BH	14 VALENTINE'S DAY	15 ✿ Members' Day: A World of Gardens. 11 a.m. ST	16	17	18 Around the World Wine Dinner. 6:30 p.m. $☎	19 Garden Blitz. $☎ Craft Saturday. 10 a.m. to 12:30 p.m. BH Young Friends Trivia Night–Garden Style, 6 p.m. $☎
20	21 PRESIDENTS' DAY	22	23 Cashing in on Home Comfort. 6:30 to 8 p.m. $☎ CBEC	24	25	26 Sugared, Spiced, and Everything Iced. 10 a.m. to 4 p.m. MH
27 Corporate Partners Day. Sugared, Spiced, and Everything Iced. 10 a.m. to 4 p.m. MH	28					

KEY *(All events take place at the Garden unless otherwise noted.)*

BH	Butterfly House	KC	Kemper Center for Home Gardening	SNR	Shaw Nature Reserve
CBEC	Commerce Bank Center for Science Education	LS	Little Shop around the Corner	SP	Spink Pavilion
CHD	Children's Garden	MC	Monsanto Center	ST	Shoenberg Theater in Ridgway Visitor Center
CL	Climatron lawn	MH	Monsanto Hall in Ridgway Visitor Center	🌿	Sassafras
GGS	Garden Gate Shop	RVC	Ridgway Visitor Center	✿	Members-only event
JE	Jordan Education Wing in the Visitor Center			☎	Reservations required
				$	Fee required

photos by Brent Johnston, Cindy Lancaster, and Kyle Spradley

Missouri Botanical Garden
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photo by [illegible] Mueller

2011 ORCHID SHOW

January 29 through March 27 | Admission: $5 (free for members)
An eclectic mix of Maya-themed accents infuses this year's lush tropical display of 800 blooming orchids from the Garden's world-class collection. Special evening viewing for members only Friday, January 28.

Missouri
Botanical
Garden

bulletin

Spring 2011 Vol. 99, No. 2 www.mobot.org

photo by Koraley Northen

President's Comment

The year 2011 begins with great reason to be optimistic, as last year saw the Royal Botanic Gardens, Kew and the Missouri Botanical Garden cooperate to complete The Plant List, an online reference and checklist of the scientific names for all known plant species. The completion of that list was one of the 16 targets set by the Global Strategy for Plant Conservation, adopted in 2002 to be completed by the end of 2010. Kew and the Garden reached that target ahead of schedule, with a whole two days to spare before the end of the year!

After the global community unfortunately fell far short of reaching the vast majority of biodiversity conservation goals set for 2010, the United Nations has set its sights on the next 10 years as the Decade of Biodiversity. The goal is not just to slow the loss of biodiversity by 2020, but to halt it completely. This goal needs to be and is a major concern for the Garden, both in St. Louis and worldwide.

The Global Partnership for Plant Conservation will hold its conference in August here at the Garden to plan priority tasks for plant conservation up to 2020. One of the targets for 2020 is an online flora of all known plants. The Garden expects to play a pivotal role in helping to achieve this target. We will build on The Plant List to create this vital new tool, helping to guide efforts to safeguard the planet's biodiversity, based on having a comprehensive understanding of plant diversity.

Discoveries of new plant species are an important part of the task too. Garden botanists recently published descriptions of eight new species found in Bolivia (see page 6). Of the more than 400,000 species believed to exist, there are still tens of thousands yet to be described. These plants were found in the Andes, a biological hot spot known for a tremendous diversity of species. The Garden has joined a partnership to study the impacts of climate change on that biodiversity, thanks to a generous grant from the John D. and Catherine T. MacArthur Foundation (see page 7).

Discoveries of many kinds await visitors to the Garden this spring, from the first appearance of snowdrops in March to our TREEmendous activities marking the United Nations International Year of Forests. In May, Chinese Culture Days returns to the Garden to celebrate the Year of the Rabbit with pageantry, arts, cuisine, and more. I look forward to seeing you about the grounds!

Peter Wyse Jackson

Dr. Peter Wyse Jackson, *President*

To discover and share knowledge about plants and their environment in order to preserve and enrich life.

– mission of the Missouri Botanical Garden

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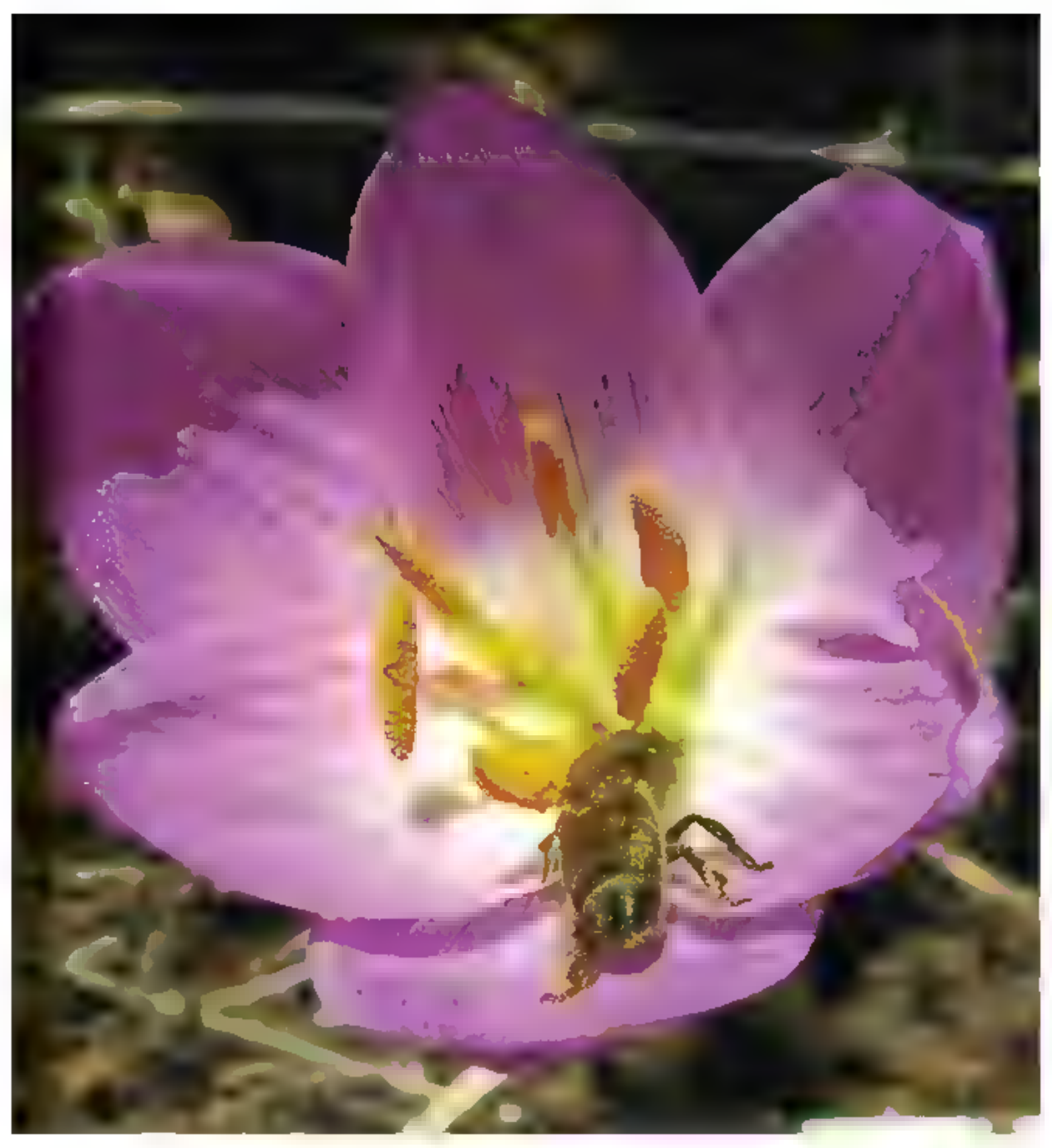

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From Georgia to St. Louis

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OPEN
OPEN

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Ready to Go Electronic?

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On the Cover:

Cherry blossoms in the Japanese Garden. Photo by Heather Marie Osborn.

Credits

Editor: Jeff Ricker
Designer: Ellen Flesch

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except December 25.
Outdoor walking hours begin at 7 a.m. Wednesday and Saturday.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
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In Memoriam

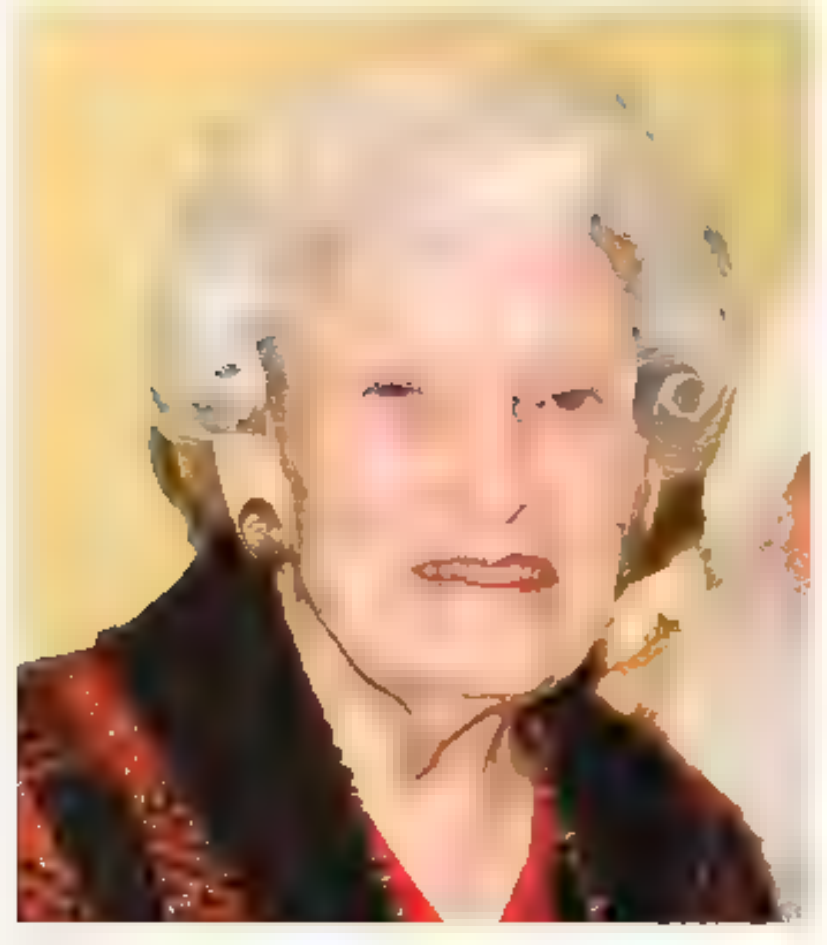
Dr. Jai Nagarkatti
1947–2010

Jai Nagarkatti, Chairman, President, and Chief Executive Officer of Sigma-Aldrich Corp. and a member of the Missouri Botanical Garden Board of Trustees, died of a heart attack on Saturday, November 13. He was 63.

Nagarkatti worked at Sigma-Aldrich for 34 years and spent the past four as president, chairman, and CEO. His colleagues describe him as someone intent upon using his vision and passion for chemistry and the life sciences to improve the quality of life.

That vision and passion made him a natural fit for his service on the science and conservation committee of the Garden's board, but his interest in the institution was more complex. His associates at the Garden say he also valued it as a beloved cultural attraction. He and wife Susan served in leadership positions in 2008 in presenting a successful and festive gala at the Sophia M. Sachs Butterfly House.

Nagarkatti also served on boards at Washington University in St. Louis and the St. Louis Science Center. He is survived by his wife Susan and daughter Shanti, as well as his father and brother.



Marian Herr
1919–2010

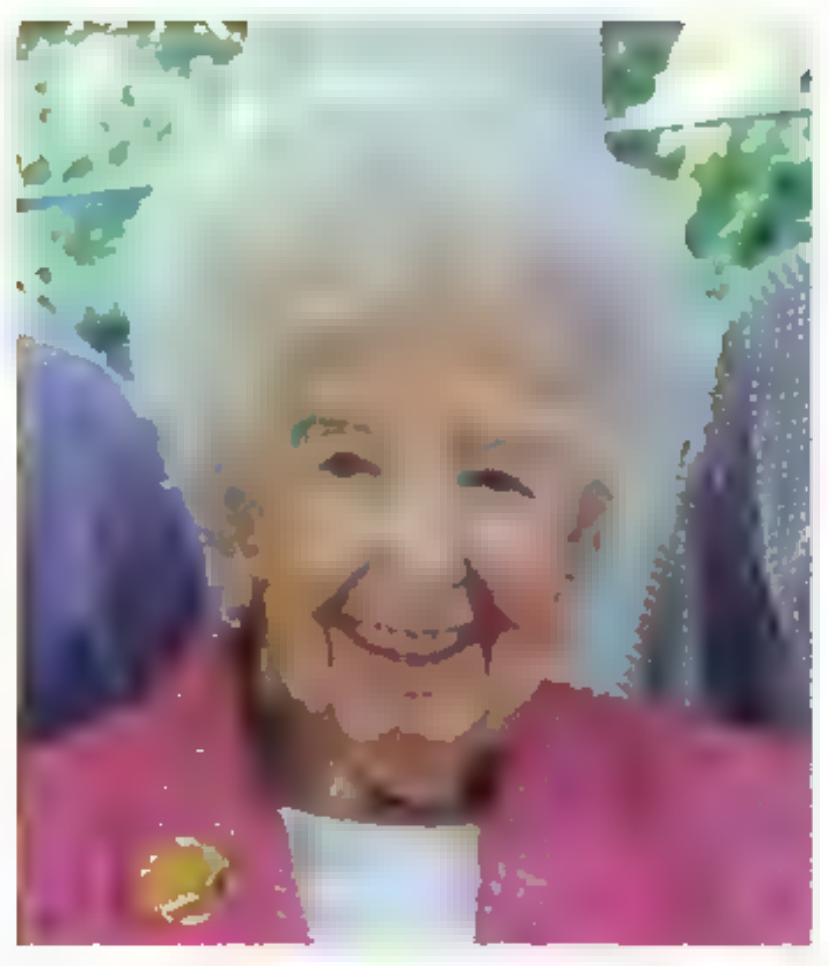
Marian Herr, a loyal Garden friend for more than 80 years, died peacefully on Friday, December 10. She was 91.

Herr and her twin sister, Ethel, became regular Garden visitors when they were 8 years old. Their father, Ferdinand Herr, brought them in the 1920s and 1930s to a Garden that was dramatically different from the place they saw it become. In Marian's words from a 2004 article, the "wonders never ceased" on those family outings. During the decades of growth she witnessed, she said one thing remained the same: "There was always something beautiful to see."

Marian and Ethel Herr became Garden volunteers in the 1980s. Ethel died in 2002, but Marian continued volunteering until 2008.

The Herr sisters were members of the Garden's Heritage Society, and their gifts to the Garden included books donated to the library in memory of their father and a bench in the Strassenfest German Garden. Marian later dedicated a tree in Ethel's memory. Since 2006, she had sponsored Gardenland Express.

Marian also was generous to other cultural institutions in St. Louis, as well as New Hope Lutheran Church.



Margaret Whitmire
1918–2010

Peg Whitmire, a woman committed to serving her community and passionate about native plants and gardening, died peacefully and surrounded by family on Sunday, December 12. She was 91.

The five-acre Whitmire Wildflower Garden at Shaw Nature Reserve was a gift to Peg on her 70th birthday from her husband, Blanton Whitmire. The couple committed another gift years later to assure the ongoing care of the Garden. The stunning beauty of the Whitmire Wildflower Garden quickly became a source of education and inspiration and positioned the Reserve as a leader in native plant horticulture.

Peg and Blanton Whitmire supported several other projects at Shaw Nature Reserve as well, including the restoration of wetlands, a lodge at the Dana Brown Overnight Center, and construction projects that improved experiences for Reserve visitors and simplified maintenance of the 2,400-acre landscape.

Peg also supported Gateway Greening, which transforms vacant urban lots into gardens, and several education initiatives.

She is survived by Blanton, daughter Catherine, son Richard, and three grandchildren.

photo by Leslie Wallace

Ruwitch Peony Walk in the Japanese Garden

Couple's Affection Evident in Garden Gifts

The late Joe Ruwitch and wife, Liz, loved the bright blooms of peonies. Their affection for the flower—and each other—is evident in the lovely line of peonies at the eastern edge of the Japanese Garden. Joe, who was a member of the Garden's Board of Trustees, provided funding for the flowers as a gift to his wife.

It was among many gifts the Ruwitches gave to the Garden and is indicative of their generosity in the St. Louis community. Liz, in memory of Joe, provided funding for the Garden for All, a space devoted to gardeners confined to a chair. The gift honored Joe's love for gardening even when his health made it difficult.

Liz says her parents' civic generosity inspired her and her husband to become philanthropists. When her mother died, the couple honored her life with a stone lantern in *Seiwa-en*.

Liz and Joe also taught their children the importance of giving. For the couple's 50th anniversary, their children surprised them with a framed image of a peony they gave to the Garden during a celebration here. The painting hangs in Ridgway Visitor Center.

Liz says she and Joe gave careful consideration to their charitable gifts, and encourages others to do the same.

"Donors give to organizations whose work is meaningful to them," she says. "We have always thought the Garden was one of the finest gardens any city could have."

Welcome, New Trustees

The Garden welcomed two new trustees and a new emeritus trustee at its December board meeting. Lelia J. Farr and Eugene M. Toombs were named trustees, and Dr. Mabel L. Purkerson, M.D. was named emeritus trustee.

Lelia J. Farr is a graduate of Wake Forest University in Winston-Salem, North Carolina. She also serves on the friends board for the Saint Louis Art Museum, the board of directors for Dance St. Louis, and the board of the Gateway "I Have a Dream" Foundation. She and her husband, David N. Farr, chairman, president and chief executive of Emerson, serve in leadership capacities with a number of other nonprofit organizations in St. Louis. Emerson's support of the Garden has included presenting sponsorship of the Chihuly exhibition in 2006, presenting sponsorship of the sesquicentennial celebration in 2009, and capital support for the renovation of the Ridgway Visitor Center.

Eugene "Gene" M. Toombs is chairman and chief executive of MiTek Inc., the world's leading supplier of engineered products and services for the building components industry. Toombs joined the Chesterfield-based company in 1989 and has been chief executive since 1993 and chairman since 2002. He serves on the boards of Junior Achievement, the YMCA of Greater St. Louis, and Talx Corporation. He and his wife joined the Garden's Peter H. Raven Society in 2007, and MiTek has provided corporate sponsorship for a number of Garden events and exhibits. Toombs is a graduate of Fairleigh Dickinson University and Harvard Business School.

Dr. Mabel L. Purkerson, M.D. earned her bachelor's degree from Erskine College and her medical degree from the Medical University of South Carolina in Charleston. Purkerson was appointed to the Washington University faculty in 1961, appointed instructor of medicine in 1966, and advanced to assistant professor of medicine in 1967. She served as associate professor and professor of medicine before becoming professor emerita in 1998. Her administrative appointments at the Washington University School of Medicine included associate dean for curriculum and associate dean for academic projects. Through membership support, tributes, event sponsorship, and grants from the Mabel Dorn Reeder Foundation, Purkerson has generously supported the renovation of the Linnean house and the Garden's partnership in the Deer Creek Watershed Initiative.

photo by Jeff Ricker

Mike Lopata of Microgrid Energy discusses some of the maintenance aspects of the solar modules with Guy Dopmeyer, Mike Cotton, Ralph Stamm, and Dennis Strubberg of the Garden's General Services staff.

Solar Energy Grows at the Garden

Thanks to the support of Express Scripts and an Ameren Missouri renewable energy rebate, a portion of the Missouri Botanical Garden's Commerce Bank Center for Science Education's power is being generated by solar photovoltaic energy. Visible while traveling east on Interstate 44, the 110 solar modules installed by Microgrid Energy will generate 25 kilowatts of power, equivalent to the power needs of four to six homes.

The Center for Science Education, already one of the Garden's most energy-efficient buildings, is the new home of the EarthWays Center and the headquarters of the U.S. Green Building Council–Missouri Gateway Chapter. The collectors will be tied to an educational display in the lobby where visitors can view real-time energy data and learn more about clean energy generated by the sun.

TREEmendous

Tap into TREEmendous Events

The Missouri Botanical Garden is celebrating the United Nations (U.N.) International Year of Forests with **TREEmendous**, a year of activities highlighting the real value of trees and the critical role they play in our lives.

From Saturday, April 30 through Sunday, Aug. 21, the **Extreme Tree Houses** exhibition branches out from the ordinary notion of tree houses with non-traditional, ground-level structures focused on sustainability and fantasy. Each structure on public display is the winner of a juried design competition open to local designers, architects, schools, studios, and individuals:

- Nomad Nest: Justin Rulo-Sabe and Theresa Hitchcock, Kansas City Art Institute
- Reflection Tree house: Jacob Amador, Andrew Hustedde, Aaron Becker, Shaun Black, Ranken Technical College
- Amazing Rings: Meghan Lewis, David Adkin, Alvin Kong, Catherine Pyle, Washington University
- Treehenge: Tom Wagner, Burns & McDonnell
- Sweet Gum Tree house: Terry Parnell, Chuck Long, Chris Malone, Levi Hausman, Roost Design Studio
- A Treed Place of Play: Christopher Manzo, Manzo Architects
- Inside the Tree House: Ann Florsek, Milt Villinger, Dean Teiber, Carol Pearlstone, Dave and Fran Thies; Ann Florsek Architect LLC, Villinger Construction Company, Teiber Construction Company, LLC, Thies Farm & Greenhouses

Guest Exhibitors:

- A "Living" Room in a Garden: CHRISTNER Team—Rick Wimmer-Brown, Denise Buehrer, Ken Hoernschemeyer, and Mick Schaefer
- House+Tree=PHI: CHRISTNER Team—Michael Antkowiak, Grace Corbin, Chris Montroy, Robin Ringwald, and Dan Rosenberg

Extreme Tree Houses kicks off with the **TREEmendous Forest Festival**, from Saturday, April 30 to Sunday, May 1 from 9 a.m. to 5 p.m. both days. Presented by Macy's, the weekend is full of expert-led tree tours, tree care clinics, hands-on workshops, a Canopy Climb and other family-friendly festivities.

The **TREEmendous! Interactive Discovery Center** in the Brookings Interpretive Center features hands-on learning for all ages. Create artwork out of tree parts, share your favorite tree stories, test your tree IQ, dress up as a tree, and more. Families are encouraged to drop in anytime from 9 a.m. to 5 p.m. daily April 1 through January 3, 2012.

Finally, with the **TREEmendous Great St. Louis Tree Hunt,** presented by Gamma Tree Experts, search the great outdoors for 30 marked trees throughout the metro region. Find complete details at www.mobot.org/treemendous.

Additional support for TREEmendous provided by Ameren Missouri.

Weberbauerocereus madidiensis *is one of eight new species identified by Garden scientists in Bolivia.*

Garden Researchers Discover Eight New Species in Bolivia

Botanists at the Missouri Botanical Garden have described eight new plant species collected in the Madidi National Park and surrounding areas located on the eastern slopes of the Andes in northern Bolivia. The new species were published in a recent edition of the Missouri Botanical Garden journal *Novon.*

Garden scientists and colleagues from the National Herbarium in La Paz, Bolivia describe *Prestonia leco*, *Passiflora madidiana*, *Siphoneugena minima*, *Siphoneugena glabrata*, *Hydrocotyle apolobambensis*, *Weberbauerocereus madidiensis*, *Styloceras connatum*, and *Meriania horrida.* All but one species, *Siphoneugena glabrata*, were collected as part of Proyecto Madidi (Project Madidi), a 10-year effort to inventory plant species in the National Park, educate graduate students, and conduct an ecological inventory of the park. The new species will be made available for incorporation in the upcoming Bolivian catalog of vascular plants.

Some of the new species are only found in very specific areas of the National Park and surrounding areas and have been assigned a provisional conservation status of "vulnerable" following the International Union for Conservation of Nature (IUCN) guidelines. Others are more broadly distributed and clearly indicate that more is to be found. Dr. Peter Jørgensen, associate curator at the Missouri Botanical Garden considers the threat to the species to be limited if the protected areas are respected, but several places within the region are at risk of fragmentation as a result of the construction of new roads and the increase in cattle and farming activities.

Since the start of the Madidi Project, botanists have identified about 132 new species, 32 of which have been published.

Emerson Gift for Ridgway Visitor Center Renovation

Thanks to a $3 million gift from Emerson, the Garden has begun renovations to the 28-year-old Ridgway Visitor Center. The renovations, which got under way January 17, will occur in phases starting with replacement of the Visitor Center's barrel vault roof, which has become clouded by "fiber blooms," has multiple leaks, and no insulation. The new roof will address these shortcomings, restore its appearance, and provide energy savings. Roof renovations are scheduled to be complete by the end of May.

"Through this generous gift, Emerson is helping the Garden promote our mission and offer a truly outstanding experience for visitors, befitting a premier cultural attraction," said Dr. Peter Wyse Jackson, president of the Garden.

photo by Donald Frisch

The Bethesda Garden Club maintains four raised beds as well as numerous other spaces around the facility.

Plants' Healing Power

The Missouri Botanical Garden's Therapeutic Horticulture program made a difference beyond the Garden's walls in 2010. At Siteman Cancer Center in West County, a new healing garden was installed, designed by the Lawrence Group in consultation with Therapeutic Horticulture, specifically with the needs of the patients, caregivers, and staff in mind. This serene outdoor space contains a variety of sensory plants in the winter garden, medicinal garden, bird and butterfly garden, dry creek, and pond.

At the Bethesda-Dilworth senior living facility in Webster Groves, the Therapeutic Horticulture program worked with Bethesda's Garden Club to create a year-round indoor/outdoor gardening experience. The Garden Club, made up of residents and staff at Bethesda, uses four raised beds and numerous containers for its outdoor growing space. Indoor growing spaces include an attached sunroom, common areas, and Garden Club members' rooms. Following the success of the program in 2010, it is being expanded to garden spaces throughout the grounds.

Study to Examine Effects of Climate Change in Andes

Plant scientists from the Missouri Botanical Garden will join the Inter-American Institute for Global Change Research (IAI) and other partners to study the impacts of climate change on biodiversity in the tropical Andes. The project seeks to provide Bolivia, Colombia, Ecuador, and Peru with standard methodology for estimating local climate-change risks, which can advise future decision making, adaptation measures, and conservation planning.

The IAI initiative has been awarded a three-year, $500,000 grant from the John D. and Catherine T. MacArthur Foundation.

Climate, land use, and biodiversity will be examined in the Pacific slope of the Northern Andes between Colombia and Ecuador, as well as the Amazonian slope of the Central Andes between Bolivia and Peru. Both areas are renowned for their exceptional species richness.

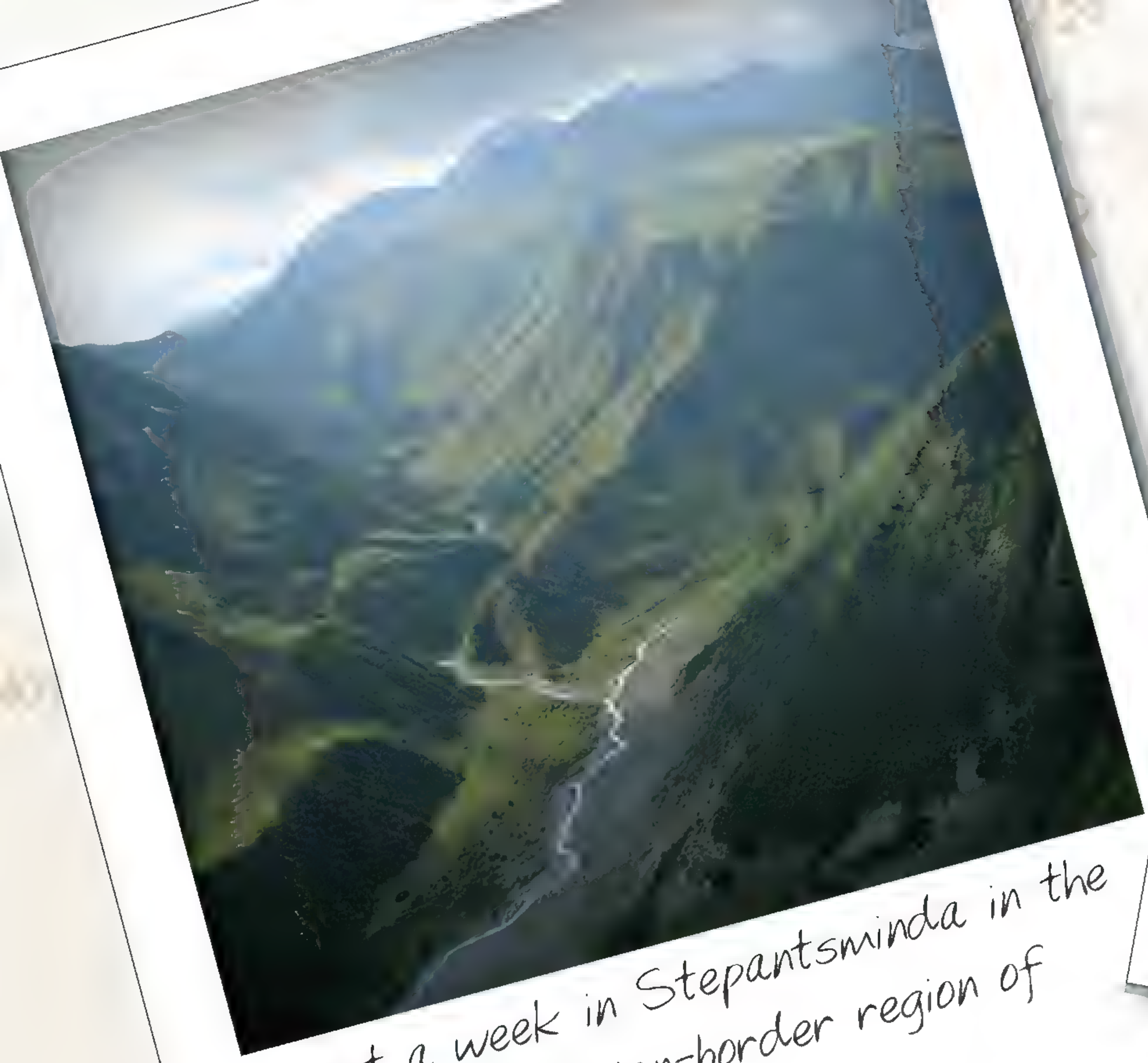
The Andes is a biological hot spot where thousands of species are already in danger of extinction, said Dr. Peter Jørgensen, associate curator at the Garden.

AmeriCorps volunteers take an orientation hike on their first day at Shaw Nature Reserve.

AmeriCorps Team Helps Out at Shaw Nature Reserve

Shaw Nature Reserve got a helping hand dealing with several invasive species this fall when they were visited by a service team from AmeriCorps. The team of 10 young people from Denver, Colorado spent a full month at the Reserve working on numerous projects:

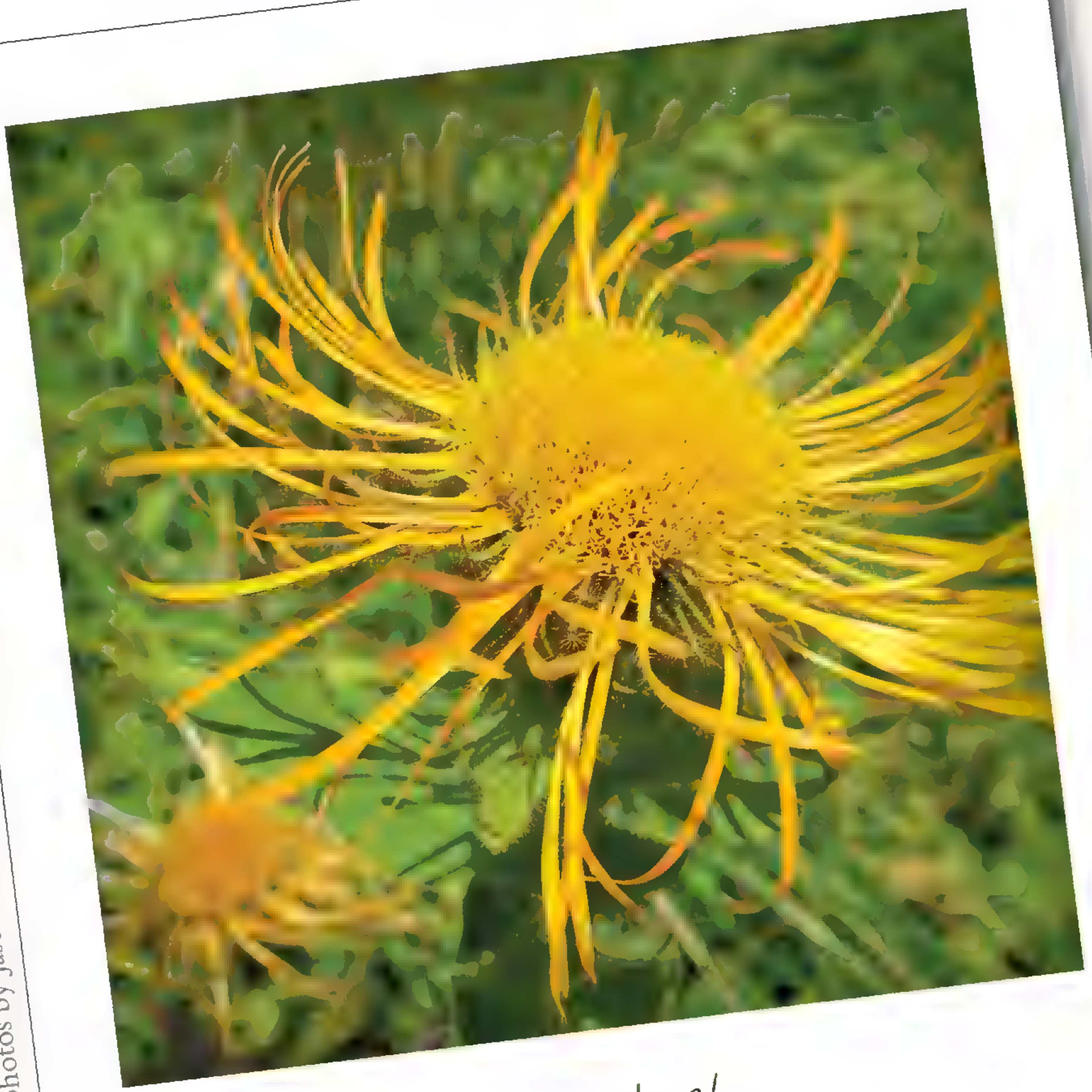
- Eliminating bush honeysuckle, privet, and other non-native shrubs on 25 acres along Brush Creek.
- Gathering and processing nearly 100 pounds of native plant seeds for sowing in the shrub-cleared areas.
- Gathering firewood for the wood-fired radiant heating system at the Edgar Anderson Complex.
- Cleaning up trash in the Meramec River Bottomland Natural Area.
- Constructing benches and other furniture from local materials.



Spent a week in Stepantsminda in the northeast Russian-border region of Mtskheta-Mtianeti.

Beneath the summit of Mt. Kazbek (5,033 m), the seventh-highest peak in the Caucasus.

Traffic jam.



Elecampane or horse-heal (*Inula helenium*)

photos by Jason Delaney

From Georgia to St. Louis

A Trip to the Caucasus Yields Colorful Potential

by Jason Delaney

Some people will go a long way to find the perfect plant. A lucky few will go halfway around the world.

Late last summer, members of the Plant Collecting Collaborative (PCC) traveled to the Republic of Georgia for a field collecting assignment in the Caucasus Mountains. From the central capital of Tblisi, we explored much of the country's southeastern region toward the Armenian and Azerbaijani borders, north along the Russian Federation border, and throughout the country's south-central corridor.

In total, we made nearly 300 collections representing nearly 250 unique taxa. The process was not as simple as merely picking what we'd like, though. Our target list of desired plants was first reviewed and approved by governmental agricultural departments of both Georgia and the United States for their collection and import into the U.S. Certain internationally endangered and protected plants, such as *Cyclamen* and *Galanthus* bulbs, required special certificates from the Convention on International Trade in Endangered Species before they can be collected and removed from their country of origin.

Herbarium vouchers (dried specimens) of many plants were also collected as documentation for reference.

Autumn crocuses (*Colchicum speciosum*). Wild versions of plants in cultivation can improve disease and drought tolerance.

The list of plants to collect took into consideration many factors, including environmental conditions that might influence a plant's success back in the U.S., unique and underused ornamental qualities, and threatened and endangered status. Potential for invasiveness is one of the most critical factors taken into consideration.

Georgia was chosen due to its geographical location and extraordinarily diverse ecosystems, which provide much promise for plants that should grow well in the United States. Discovering plants of horticultural merit is the primary focus, but these expeditions also provide plants of other interest, such as medicinal, rare, endangered, and edible plants. Other benefits include germplasm of documented wild origin, newer forms of plants currently in cultivation, improved disease resistance or drought tolerance, and in some cases plants new to cultivation.

Ultimately, these plants will be used for education, conservation, research, and display. They are shared within the PCC and often with other botanical gardens and the U.S. Department of Agriculture's germplasm repository. The expeditions also foster collaboration with institutions around the world. This improves scientific study and increases awareness of and understanding about plants and their communities.

The seeds and bulbs collected last summer will ultimately be grown throughout Garden grounds, some as early as this summer. From a 2001 expedition to Georgia, many highly ornamental plants grace our collections: knapweed (*Centaurea dealbata*), yellow scabious (*Cephalaria gigantea*), and prickly comfrey (*Symphytum asperum*) flourish in the Bakewell Ottoman Garden; stone leek (*Allium globosum*), autumn crocus (*Colchicum umbrosum*), and autumn daffodil (*Sternbergia lutea*) provide late summer and autumn interest in the Heckman Bulb Garden; and nepeta (*Nepeta grossheimii*), poppy (*Papaver oreophilum*), pasque flower (*Pulsatilla vulgaris*), and sage (*Salvia garedjii*) in the Samuels Rock Garden demonstrate the far-reaching possibilities and ease of ornamentals growing in extreme situations. The future for the 2010 expedition looks just as colorful!

About the Plant Collecting Collaborative

Formed in 1992, the Plant Collecting Collaborative is a consortium of six major public gardens and arboreta, including the Missouri Botanical Garden, Chicago Botanic Garden, The Holden Arboretum, New York Botanical Garden, The Morton Arboretum, and University of Minnesota Landscape Arboretum. The Collaborative combines institutional expertise in conservation, plant identification, propagation, horticulture, and scientific research to seek out and preserve wild-collected, ornamentally valuable plants for the future.

A Biodiversity Hot Spot

Georgia is one of six countries making up the Caucasus Mountain region, including Armenia, Azerbaijan, Iran, Russia, and Turkey. The Greater and Lesser Caucasus mountain ranges run parallel through this region from northwest to southeast and create many different types of climate and vegetation. As a result, this area is one of the world's biodiversity hot spots. Collectively, the region is home to 6,300 species of vascular plants, of which 2,800 are endemic—that is, found nowhere else on Earth.

In October 2009, the Missouri Botanical Garden hosted an International Symposium on Plant Conservation in the Caucasus Region, where scientists from the region met to discuss cooperation to create a Caucasian Plant Red Book, including a list of the most endangered plants in the Caucasus Mountains. Though each country had its own list, a comprehensive regional list was still needed. Thanks to financial support from the Critical Ecosystem Partnership Fund, the list will be published by the Missouri Botanical Garden this year.

Without a list of endangered plant species, there is no scientific basis for conservation. "Plants know no borders," said Garden associate curator Dr. Tatyana Shulkina.

The inventory at the Little Shop Around The Corner, 4744 Castleman, comes from quality donations contributed by Garden members and the community.

LITTLE SHOP, BIG IMPACT

Shop Green, Shop Vintage—and Support the Garden

by Laure Hullverson

Maybe you're looking for a unique accent piece, accessories, or even an entire room of furniture. Whatever you're in the market for, the Little Shop Around The Corner should be your first stop. The name is slightly misleading—it's anything but little—but it is just around the corner from the Missouri Botanical Garden at Shaw and Vandeventer, and it houses some must-see items.

Opened in 2004, the Little Shop is the brainchild of Garden Emeritus Trustee Evelyn Newman. It specializes in high-quality furniture as well as artwork, vintage jewelry, china, glassware, and other vintage items.

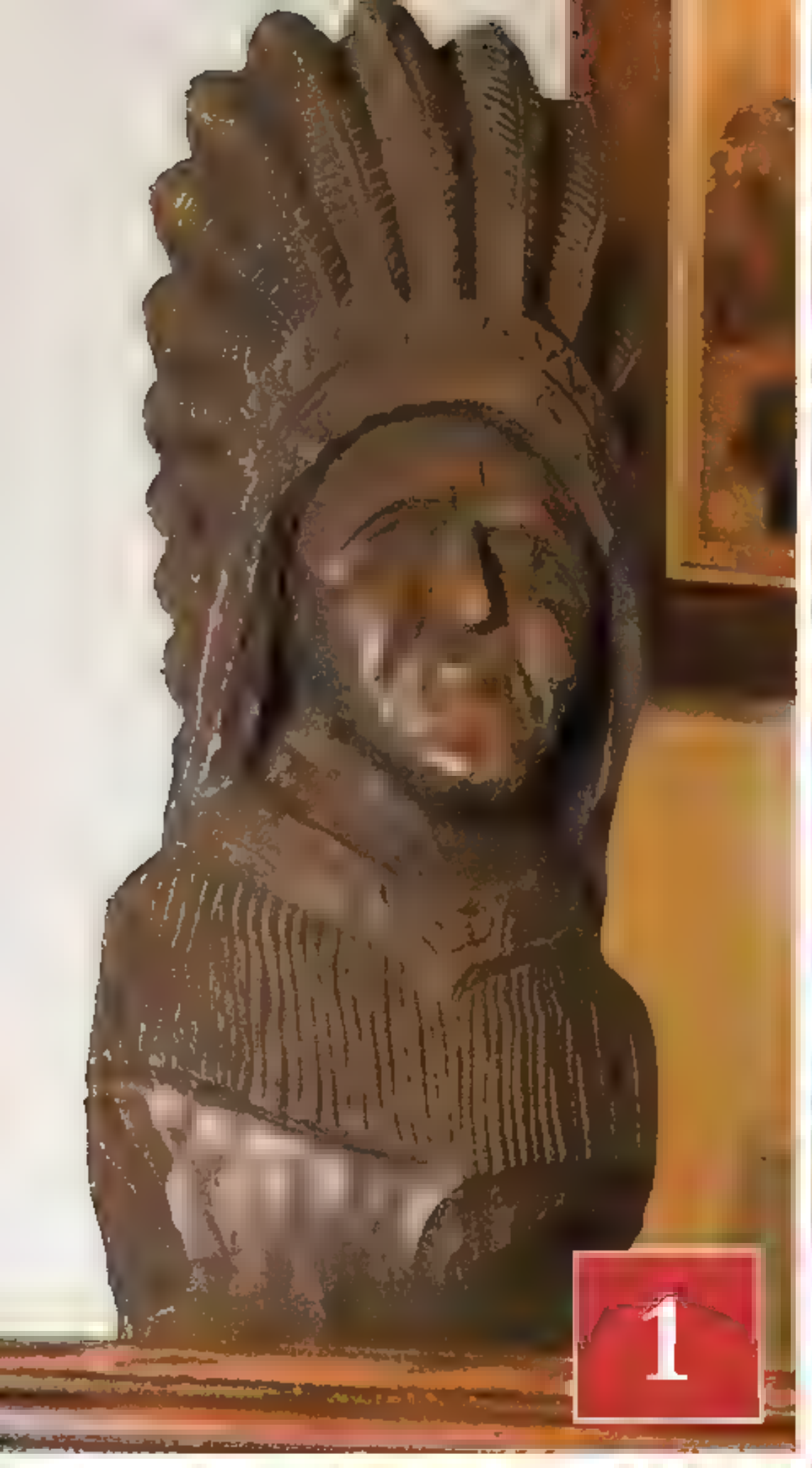
The Little Shop takes recycling to a new level. The impressive inventory contains an eclectic mix of items from donations by individuals and families throughout the St. Louis metropolitan area. Cherished possessions that donors no longer need can find new life with someone searching for the perfect piece to complete their décor, or with another not-for-profit group within St. Louis.

Donations of household and garden items are accepted on a piece, room, or whole-house basis. Mark Currington, supervisor of the Little Shop, evaluates all donations to determine which will be sold in the shop. A staff of two, along with 36 volunteers, assists Mark in cataloging and identifying pieces of historical value. Many volunteers have significant expertise and experience in the decorative arts and work diligently to research each donation and determine appropriate value and pricing.

"Without the volunteers, we wouldn't be here at all," Mark says.

Not every donation is destined for the sales floor. Items with specific historical value to St. Louis are offered to the appropriate organization to ensure that such items remain available to the general public. Scott Joplin and Campbell House museums, for example, have received notable contributions this way. Other items are set aside for donations to local groups, such as Habitat for Humanity, high school theater groups, children's charities, St. Patrick's Center, and even Beanie Babies are sent to the U.S. Army to hand out in Baghdad.

On a recent trip to the shop, I discovered some amazing items that would make wonderful accent


1

2

3

4

IMPROVED
TRADE
STANDARD
MARK
CHAMPION
WASHING MACHINE
5

photos by Kim Bretz

pieces. A wooden washing machine from 1861 (5) would be a unique end table in a family room, and a carved Indian head (1) could be the perfect piece for the top shelf in a two-story great room.

Several other pieces would provide unique solutions to storage issues. For the kitchen, I found a fun retro "island" that would hold any number of items and provide extra counter space. Some other pieces would fit beautifully in a bedroom and provide wonderful and attractive storage. One is a Victorian shoe cabinet from the late 1800s/early 1900s (4), and the other is a carved English wardrobe (2) and matching desk. I also discovered the perfect "June Cleaver" dress (3) and, oh yes, some pearls to go with it.

From beds to buffets, mirrors to mannequins, lamps to lithographs, the Little Shop has a fascinating array of items for your home and garden to be passed on: all in the name of recycling.

Editor's note: Laure Hullverson is an interior designer and the President of the Members' Board of the Missouri Botanical Garden.

LITTLE SHOP AROUND THE CORNER

Donations to the Little Shop are a great way to help support the Garden's mission, whether you're cleaning house, downsizing, or just making room for new treasures. Large estates or heavy items can be scheduled for pickup. All donations are tax deductible. For more information, please call (314) 577-0891.

Green Tips for Buying New Furniture

by Jean Ponzi

Durable: Many antiques, such as those you'll find at the Little Shop Around The Corner, are still in use because they were built to last! Arts and Crafts era pieces are good examples to learn from. Look carefully at how new furniture is made. Choose pieces with substantial joinery that can be re-glued and repaired, not sent to a landfill.

Sustainable: Forest Stewardship Council (FSC) certification documents sustainably harvested woods. Look for documentation of reclaimed or recycled material use.

Healthy: To safeguard indoor air quality and your family's health, choose pesticide-free natural fibers for upholstery and fillings, or synthetics with GreenGuard certification. Avoid vinyl and particleboard or other composite construction materials that typically off-gas VOCs, volatile organic compounds.

Local: Look for "Made in USA" and manufacturers located in the region where you live. Limiting the number of miles your furniture has to travel reduces your carbon footprint. Especially for major investments—dining tables, bedroom sets, kitchen cabinets—check out options and pricing for having items locally built. The Garden's Best of Missouri Market festival in October is a great place to start your search. You may be pleasantly surprised by the quality and beauty your budget can buy—while supporting local artisans and material vendors.

Timeless: Furniture embodies a lot of energy in materials, manufacturing, labor, transportation, etc. Conserve these resources! Cultivate an aesthetic with staying power, instead of buying short-lived trends. When you do change a room, re-sell pieces or circulate them to family, friends, or a charity. Remember, if you donate them to the Little Shop, your donation is tax deductible.

Let the Garden's EarthWays Center help with your Green Questions! E-mail "Green Jean" Ponzi at greenresources@mobot.org or call (314) 577-0246.

Shaw Nature Reserve

Native Annuals Add Color to Home Gardens

by Cindy Gilberg

From left: Palafox (Palafoxia callosa) *has a delicate appearance similar to baby's breath.* Polansia dodecandra *is attractive to butterflies and hummingbird moths. The yellow to light orange blooms of western wallflower (*Erysimum capitatum*) complement several other plantings.*

Mention annuals, and images of geraniums, petunias, and zinnias usually come to mind. Missouri's native annuals are lesser known yet striking in their own right and merit attention. Despite their delicate appearance, these plants are quite hardy and well-adapted to our climate.

The plants below come from Missouri's upland prairie and rocky glade habitats. Plant trials in the Whitmire Wildflower Garden reveal how adaptable and showy these species are.

Plains coreopsis (*Coreopsis tinctoria*) is very showy with bright yellow daisy flowers that sway in the summer wind. For this reason, this 3- to 4-foot-tall species is frequently included in prairie seed mixes and prairie gardens.

Blue waxweed (*Cuphea viscossisima*) has diminutive magenta flowers throughout the summer. *Cuphea,* noted as a potential edible oil crop, is frequently mentioned as a medicinal plant.

One of the showiest of our native plants is western wallflower (*Erysimum capitatum*). It blooms throughout spring into summer with fragrant, clear-yellow or light-orange flowers that complement rose verbena, blue wild indigo, and spiderworts. Technically a biennial, this 2- to 3-foot-tall species should be planted annually for a consistent display.

Narrow-leaved sneezeweed (*Helenium amarum*) is robust and fine-textured with abundant lemon-yellow flowers. It grows to 15 inches and is useful for the front of gardens and containers.

Delicate rose-lavender flowers grace palafox (*Palafoxia callosa*), giving it an airy appearance similar to baby's breath. This late-summer bloomer grows 2 to 3 feet tall and is a great companion to late blooming natives such as asters.

Polanisia dodecandra is a lovely annual that resembles its garden relative *Cleome.* Butterflies and hummingbird moths flock to its beautiful pale pink flower clusters.

These are excellent choices for average to dry locations in the garden and in container gardens, as they perform well and hold their own through the heat of the summer. Plant in flowing masses or allow them to reseed and naturalize. Either way, a perpetual supply of native annual color in the garden is attainable with a minimum input of energy.

Spring Wildflower Sale

Saturday, May 7, 9 a.m. to 4 p.m.
$3 for nonmembers; free for members
Pre-sale for members:
Friday, May 6, 4 to 7:30 p.m.

Hundreds of native annuals, perennials, shrubs, and trees for home landscaping and wildlife habitat will be offered. In addition to less common plants from the Reserve, several regional nurseries will bring a wide array of plants ready for spring planting. Browse the largest selection of Missouri native plants and choose from a variety of plants for wet or dry soils, sunny or shady sites and a list that includes everything from *Asters* to *Zizia.*

photos by Scott Woodbury

SOPHIA M. SACHS BUTTERFLY HOUSE
march morpho mania®

Don't miss this opportunity to immerse yourself among more than 3,000 blue morpho butterflies! Plus, learn about the forests that sustain these animals and a butterfly farming process that is helping preserve and protect native species in Costa Rica.

Weekend events will include hands-on activities as well as opportunities to meet local chocolate and coffee vendors to learn about sustainable harvesting practices.

Sponsorship support provided by Novus International, Inc.

photo by Mark Deering

See more than 3,000 blue morphos in flight.

JUST FOR MEMBERS:

On Wednesday, March 16, members can enjoy a special entomologist-led tour offered on the hour from 11 am. to 2 p.m. Reservations required! For more information visit www.butterflyhouse.org or call (636) 530-0076 ext. 10.

Costa Rican Conservation:
How A Beetle Can Help Save the Forest

Megasoma elephas is Costa Rica's largest beetle, reaching up to 5 inches in length. Their population has been depleted by habitat destruction and logging of older trees.

Conservation projects at the Sophia M. Sachs Butterfly House encompass much more than just butterflies and their critical impacts to native habitats. Even though they are undoubtedly well-known and loved, butterflies are not the largest group of insects. The largest class of insects is the Coleoptera, or beetles.

The Butterfly House has been working with our Costa Rican conservation partner, El Bosque Nuevo, on a project to collect and rear Costa Rica's largest beetle, *Megasoma elephas*. This beetle can reach 5 inches in length, and the horns on its head give it its local name of "Cornisuelo." This project, initiated by the Butterfly House and the San Antonio Zoo, is being conducted in conjunction with the Ministry of Environment and Energy, El Bosque Nuevo, and the National Parks in Guanacaste, Costa Rica.

The goal is to attempt to determine population levels and to develop a breeding program for *M. elephas* and rear them through multiple generations at El Bosque Nuevo. Many of the offspring produced would be released in the area, with any excess animals sold for educational exhibits around the world. As they do with butterfly pupae, El Bosque Nuevo will use all profits from the sale of *M. elephas* to purchase land for the protected reserve, a safe haven for endemic plants and animals. The reserve, all of which has been purchased by proceeds from butterfly pupae sales, has grown from 120 hectares (1h = 2.2 acres) to more than 600!

photos by Mark Deering

Researchers use a collecting sheet to gather elephant beetles in the wild. A mercury vapor lamp gives off ultraviolet, which the insects attempt to navigate by, and end up circling to the sheet where they are collected.

Researchers Mark Deering of the Butterfly House and Martin Feather of the San Antonio Zoo made two trips in 2010 to attempt to capture adult beetles, search out suitable rearing materials, and prepare the farm for production. Butterfly House staff has made a commitment and will continue to work with El Bosque Nuevo on this project.

Seen at the Garden

Gardenland Express Members' Premiere

Tuesday, November 30, 2010

Over 500 members brought their families to a special nighttime viewing of the Garden's annual holiday flower and train show. This year's show highlighted the Appalachian Trail.

photos by Kim Bretz and Josh Monken

Roshelle Scott, Erin Miller, Meine Finnegant, and Tricia McNamara

Hank Proost, John Woodworth, and Brian Woodworth

Janet Krekeler, Carol Ann Jones, and Bonnie Morse

Norman Klayman and Family

Peter Raven, Diane Wyse-Jackson, Pat Raven, and Peter Wyse-Jackson

Ann and Mike Case

Bill and Coral James and Derick and Sally Driemeyer

Gaurav, Vaishali, Anjali, and Pritee Shah

Donna Donahue and Doris Cocos

Joyce and Chas Daugherty, Jim O'Bannon and Ellie Chapman, Gilbert and Elizabeth Merritt

Sue Oertli, Chuck Oertli, Rose Neher, and Bob Hansen

Pam Swamey and Brad Oberle

Jan and Larry Wilson

Orchid Show Members' Premiere

Thursday, January 27, 2011

Flora Maya, the 2011 Orchid Show, celebrates the famed Mayan Long Count calendar, which comes to an end in 2012. Over 500 members took in the lush display of 800 blooming orchids infused with an eclectic mix of Maya-themed accents.

photos by Josh Monken

Bill and Mary Kay Denning

Ellen Jones, Kathleen Smith, and Bernard Randolph

photo by Brent Johnston

Tributes

October through December 2010

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin*. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

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Mrs. Marlyn Adderton
Carolyn and Joseph Losos

Mrs. Rhonda Anson
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Sidney Stone, Steven Stone and Jeremy Salavatori

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Ms. Linda Galkowski
Susan Hall and the Creve Coeur Counseling Group

photo by Brent Johnston

Create a legacy

Leaving a bequest to the Garden creates a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call (314) 577-9495 for further information, or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

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Sophia M. Sachs Butterfly House Tributes & Pavers

To learn more about these opportunities, call (314) 577-0291 or visit www.butterflyhouse.org.

Tributes and Pavers dedicated at the Sophia M. Sachs Butterfly House, October through December 2010.

Tributes

In Honor of

Bob and Lois Estes
Mr. Richard Estes

Mrs. Evelyn Newman
Mr. and Mrs. Philip H. Loughlin III

Ms. Robert Schilling
Patrick Dowd and Leslie Hammond

In Memory of

Mr. and Mrs. Walter Cammarata
Mr. and Mrs. Wally Cammarata

Margaret (Peggy) Langrall
Parkway Middle School Literary coaches

Mr. and Mrs. Melvin J. Leiendecker
Mr. and Mrs. Wally Cammarata

Carson Lee Mann
Mr. Phil Galante

Pavers

Tyler A. Brody
Mr. and Mrs. Bret W. Brody

Goldie Dembo
Dr. and Mrs. Philip B. Dembo

William H. Ellstrom
Mrs. Patricia Reisinger

Maximilian C. Fox
Mr. and Mrs. Charles D'Arcy Fox

Gabrielle S. George
Mr. and Mrs. Charles D'Arcy Fox

Kathleen O'Connell
The Third Grade Class of St. Justin the Martyr

Eden Grace Robinson
Mr. and Mrs. David Bird

Natasha Rubenstein
Dr. Beverly J. Field

Evelyn Danielle Smith
Mrs. Diane Oakes

Lori and Bo Swearingen
Ms. Judith A. Rosen

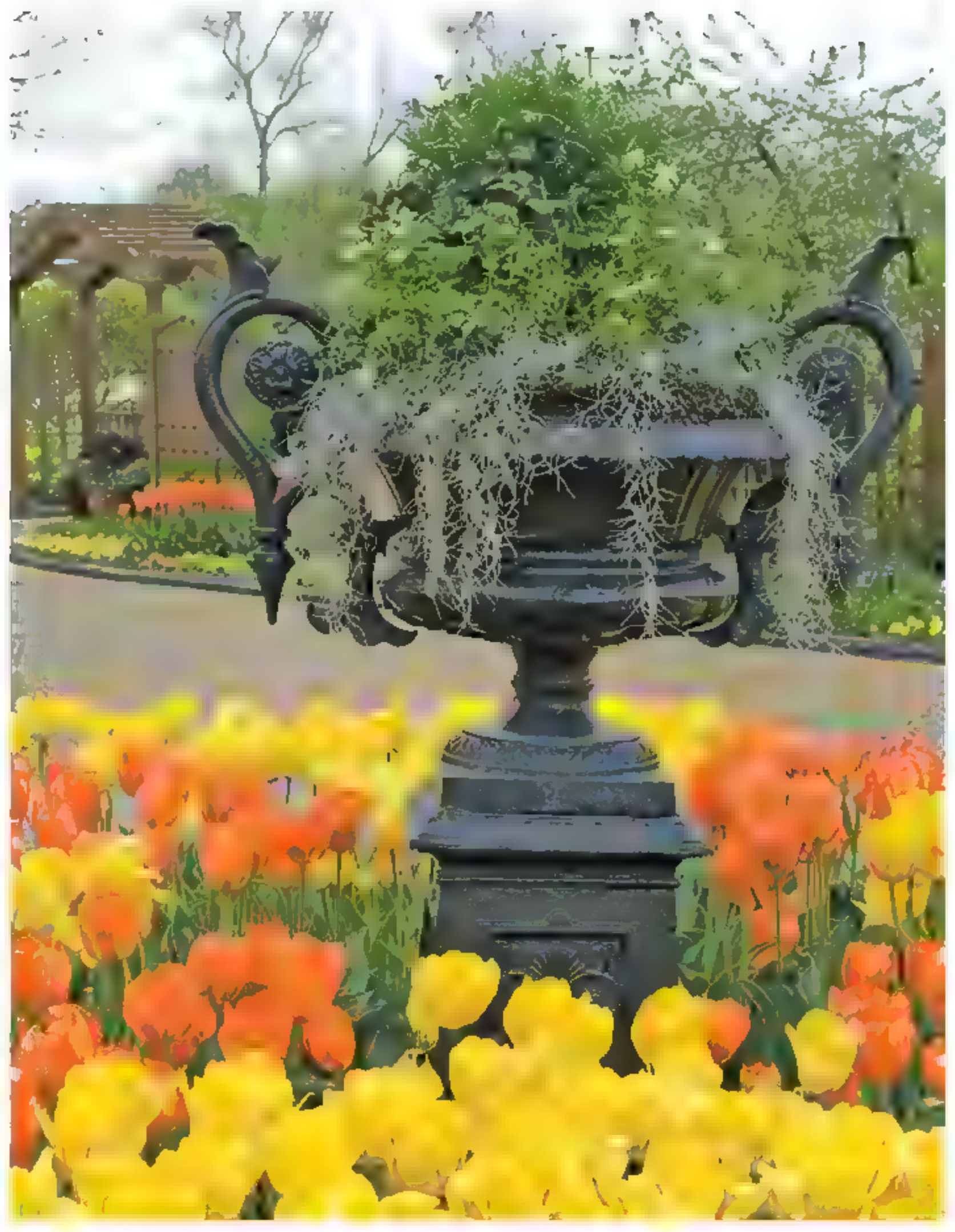
photo by Brent Johnston

Members' Entry Court

Bricks dedicated at the Garden, October through December 2010.

Engraved clay bricks and bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit www.mobot.org.

Signature Bronze Bricks

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Mrs. Dorothy M. Anderman
Ms. Taffy Arey
Ms. Elaine Baker
Mrs. Helen Baldridge
Mr. and Mrs. Roger Beggs
Ms. Susan K. Beggs
Mr. Robert B. Fredrickson
Ms. Carla D. Harlan
Mr. and Mrs. Stuart D. Hines
Mrs. Jean M. Leonhardt
Mr. and Mrs. Gerald M. Riscoe
Mr. and Mrs. William F. Springer
Mr. and Mrs. Douglas H. Wilton

Christopher Gravens
Mr. and Mrs. Daniel L. Gravens

Sharol L. Rice
Mr. William J. Rice, Jr.

Harry and Frances Weier
Mr. and Mrs. G. William Weier

Engraved Clay Bricks

Clarence and Dorothy Behrens
Mr. David F. Behrens

Lucy Allen Bond
Eleanore Patton
Mr. and Mrs. Mike Patton

Faye Elaine Crowley
Mr. J. Matthew Crowley

Lois V. Dailey
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Mr. and Mrs. Leo A. Ebel

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Mr. and Mrs. Erwin H. Epstein
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Mr. and Mrs. Walter Junge
Mrs. Mary Ann Kelly
Ms. Mary Ruth Kettenbach
Mr. William J. Mares
Mrs. Nancy G. Moore
Mrs. Gloria A. Overton
Ms. Betty A. Phillips
Sister Joanne and Carol Reuter
Mrs. Sandra Rodney
Mr. and Mrs. Donald M. Russell

Gregory Lee Stewart
Mrs. Harriet Stewart

Tower Grove House Auxiliary
Tower Grove House Auxiliary

J. C. Walters
Kampgrounds of America, Inc.

Roger and Lucy Willis
Mr. and Mrs. Roger Willis

Sweet Deals

The Garden is buzzing with activity! Spring planting and pollination will bring about sweet rewards. Visit the Garden Gate Shop for a great selection of gifts and gardening essentials. Garden members always receive a discount.

IN PURSUIT OF LIQUID GOLD
AND VANISHING BEES
THE HONEY TRAIL
GRACE PUNDYK

photo by Kate Lawless

GARDEN
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All proceeds benefit the Missouri Botanical Garden.

Story Time Returns!

Join us for story time and receive 10% off the featured books each month. Gather around the sofa in the adult book area at 10 a.m. to hear stories from the following great books:

March 5: Environmental Children's Classics *The Lorax* by Dr. Seuss and *The Little House* by Virginia Lee Burton

April 2: Tree stories, such as *Tom's Tree* by Gillian Shields and Gemma Raynor

May 7: Bee stories, New York Times Bestseller *Bee & Me* by Elle J. McGuinness and Heather Brown

Chinese Culture Days

Saturday and Sunday, May 21–22, 10 a.m. to 5 p.m.
Sponsorship support provided by Novus International, Inc.
This annual celebration features a Grand Parade with 70-foot dancing dragon, martial arts, Chinese calligraphy, painting, and authentic regional cuisine. Enjoy t'ai chi and tea tasting in the Grigg Nanjing Friendship Garden, where special tours focus on the symbolism of many plant species and architectural details. Admission: $12 adults (13–64), $10 seniors (65+), $5 children (3–12), $5 members. Buy tickets in advance at www.mobot.org.

Just for Members

New Member Orientation

Saturday, March 26, noon, Shoenberg Theater
Learn about all the benefits of Garden membership. Free for Garden members and their guests. (314) 577-5118.

Eggstravaganza

Saturday, April 16, 10 a.m. to noon, Climatron lawn
Bring your cameras, camcorders, kids, and grandkids to this "eggsellent" event. Reservations required; (314) 577-9570 or www.mobot.org/membership. Children 2–10 $5. For more information call (314) 577-5154.

Herb Gardening

Thursday, April 28, 11 a.m., Shoenberg Theater
Members of the St. Louis Herb Society share best practices for growing herbs. Don't miss the Herb Society Show and Sale in Orthwein Floral Display Hall.

Bird Watching

Thursday, May 5, 7:30 a.m., Shaw Nature Reserve, Whitmire Wildflower Garden
Join bird watching experts during the peak of spring migration for a chance to see some of the most beautiful birds Missouri has to offer.

Orchid Show

Through Sunday, March 27
Open Mondays–Fridays, 9 a.m. to 3 p.m. (last weekday entry at 2 p.m.),
Saturdays and Sundays, 9 a.m. to 5 p.m.
Admission: $5 plus Garden admission;
free for members and children ages 12 and under.
The Maya Long Count calendar doesn't reach its end until 2012, but this year's Orchid Show, infused with a mix of Maya-themed accents, comes to a close March 27. Step into this lush display of up to 800 blooming orchids today! Information: www.mobot.org/events/orchidshow; (314) 577-5100. *Sponsorship support provided by Northern Trust Bank.*

Doris I. Schnuck Children's Garden Reopens for the Season

Saturday, April 2 and Sunday, April 3
Presented by Macy's
Join us in waking up the Children's Garden for spring with fun activities from 9 a.m. to 4 p.m. Make a craft, shake hands with mascot Finn, and pot a plant to take home. The Children's Garden is open April 1 through October 31 from 9 a.m. to 5 p.m. daily. $5 per child; adults included with general Garden admission.

Wicked Bugs talk and book signing

April 30, 11 a.m., Shoenberg Theater
New York Times bestselling author Amy Stewart takes a comic look at the sinister side of our relationship with the insect world. Her latest book, *Wicked Bugs*, comes out this May.

Take a Shot! Kids Photo Contest

Through July 15, Shaw Nature Reserve
Budding young photographers and nature lovers, ages 14 and under, are eligible to enter this photo contest co-sponsored by the Missouri Nature and Environmental Photographers and the Shaw Nature Reserve. The contest has four nature-related categories with three winners in each. All photos must be taken at the Shaw Nature Reserve between April 1 and July 15. For complete contest rules and an entry form, visit www.shawnature.org.

Save the Dates!

St. Louis Garden Tour 2011

Sunday, June 12, 10 a.m. to 4:30 p.m.
Mark your calendar! Every three years the Missouri Botanical Garden hosts a tour of the most spectacular private gardens in the St. Louis area. Reservations required. For information call (314) 577-5181 or visit www.mobot.org.

Rose Evening, *June 6, 5:30 p.m.*

Midsummer Night's Dance,

June 17, 6 p.m. Climatron Lily Pools

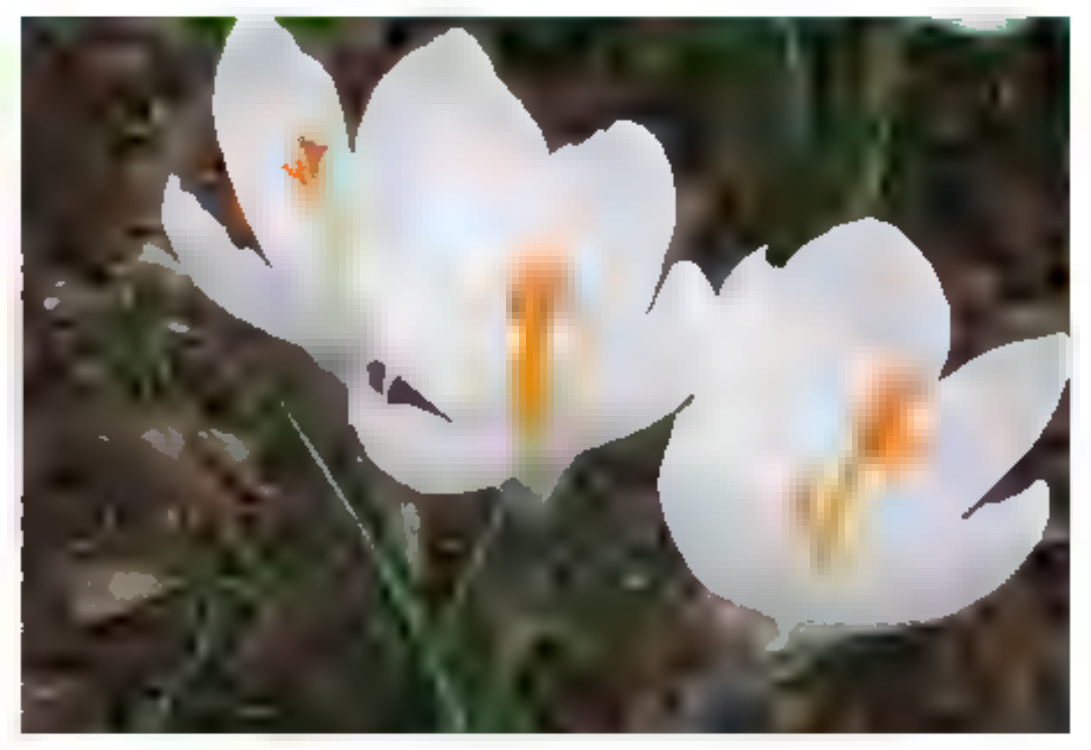
March
2011

average temperature: low 36.2, high 55.4
average precipitation: 3.6 in.

What's in bloom?

download the podcast at www.gardeninghelp.org

daffodil


crocus

hyacinth

magnolia

forsythia

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
2011 Flora Maya ORCHID SHOW Sponsorship support by Northern Trust Bank January 29 to March 27		01 ■ March Morpho Mania, through March 31. BH	02	03	04	05 ■ Children's story time. 10 a.m. GGS
06	07	08 ■ Little Acorns: We Have a Lot of Growing To Do! 9:30 a.m. SNR $ ☎	09 ASH WEDNESDAY	10 ■ Native Plant School: Gardening in Deep Shade. 9 a.m. SNR $ ☎ ■ Native Plant School: Native Landscaping Part 1: Planning and Design. 1 p.m. SNR $ ☎	11 ■ Native Plant School: Native Landscaping Part 1: Planning and Design. 1 p.m. SNR $ ☎	12 ■ Hop, Leap or Fly! Family Overnight. 6:30 p.m. SNR $ ☎
13	14	15	16 ✿ Members' Day: March Morpho Mania. 11 a.m. to 2 p.m. BH	17 ST. PATRICK'S DAY	18 ■ Around the World Wine Dinner. 6:30 p.m. $ ☎	19 ■ Horticulture Therapy Awareness Day. 10 a.m. KC ■ Great Green Adventures: Early Bloomers. 10:30 a.m. and 1:30 p.m. CHD $
20 VERNAL EQUINOX	21	22	23	24	25	26 ✿ New member orientation, noon. ST
27 ■ Orchid Show ends ■ Wild Edibles class. 1 to 4 p.m. SNR $ ☎	28	29	30	31		

photos by Glenn Kopp, Brian Mueller, Tammy Palmier, and Missouri Botanical Garden PlantFinder

April 2011

average temperature: low 46.5, high 66.7
average precipitation: 3.69 in.

What's in bloom?

download the podcast at www.gardeninghelp.org

crabapple

tulip

azalea

dogwood

fothergilla

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
TREEmendous *Sponsorship support by Ameren Missouri, Gamma Tree Experts, and Macy's*			**Reopening for the season April 1:** • Tower Grove House • Children's Garden • Tram operations • Terrace Café at Kemper Center for Home Gardening		01 Let's Go Letterboxing: A Mother and Daughter Overnight. 6:30 p.m. SNR $ ☎ Arbor Day tree giveaway. 9 a.m. KC	02 Children's Garden opening weekend. 9 a.m. to 4 p.m Children's story time. 10 a.m. GGS Naturally Crafty Saturday. 10 a.m. BH
03 Children's Garden opening weekend. 9 a.m. to 4 p.m BUZZ: Edible Insects. 11 a.m. BH Greater St. Louis Daffodil Society show. RVC	04	05 Little Acorns: Earthworms. SNR.	06	07 Bluebells Abound! 12:30 p.m. SNR $ ☎	08 2011 John Dwyer Lecture in Biology: *Saxon Transylvania: Lost World and Botanical Paradise*, by Dr. John R. Akeroyd. 4 p.m. MC	09 Wildflower Identification and Ecology. 9:30 a.m. SNR $ ☎ Basket Making. 9 a.m. SNR $ ☎ Mid America Regional Lily Society sale. RVC
10 Tale Travelers. 1 p.m. SNR $ ☎	11	12 Spring Wildflower Walk. 9:30 a.m. SNR $	13	14 Native Plant School: Native Landscaping Part 2. 1 p.m. SNR $ ☎ Native Plant School: Common Garden Weeds. 9 a.m. SNR $ ☎	15 Native Plant School: Native Landscaping Part 2. 1 p.m. SNR $ ☎ Around the World Wine Dinner. 6:30 p.m. $ ☎ Bed Bugs: Spiders. 6:30 p.m. BH $ ☎	16 ✿ Eggstravaganza. 10 a.m. Great Green Adventures. 10:30 a.m. and 1:30 p.m. CHD $ DIY Paper Making. 2 p.m. BH $ ☎
17 PALM SUNDAY Fly Fishing for Beginners. 8:30 a.m. and 12:30 p.m. SNR $ ☎ Mushrooms: From Backyard to Table. 1 p.m. SNR $ ☎	18	19 PASSOVER Spring Wildflower Walk. 9:30 a.m. SNR $	20 Morning Bird Walk. 8 a.m. SNR $	21	22 GOOD FRIDAY EARTH DAY Bed Bugs: Butterflies. 6:30 p.m. BH $ ☎	23 Greater St. Louis Iris Society show. RVC Buggin' Out for Earth Day. 11 a.m. to 2 p.m. BH
24 EASTER	25	26 Spring Wildflower Walk. 9:30 a.m. SNR $	27 Morning Bird Walk. 8 a.m. SNR $	28 ✿ Members' Day: Herb Gardening, 11 a.m. ST. St. Louis Herb Society Herb Days. RVC	29 ARBOR DAY St. Louis Herb Society Herb Days. RVC	30 TREEmendous Forest Festival. 9 a.m. TREEmendous Extreme Tree Houses opens, through August 21. Wicked Bugs talk and book signing St. Louis Herb Society Herb Days. RVC

photos by Glenn Kopp, John Smelser, Chris Starbuck, and Missouri Botanical Garden Plantfinder

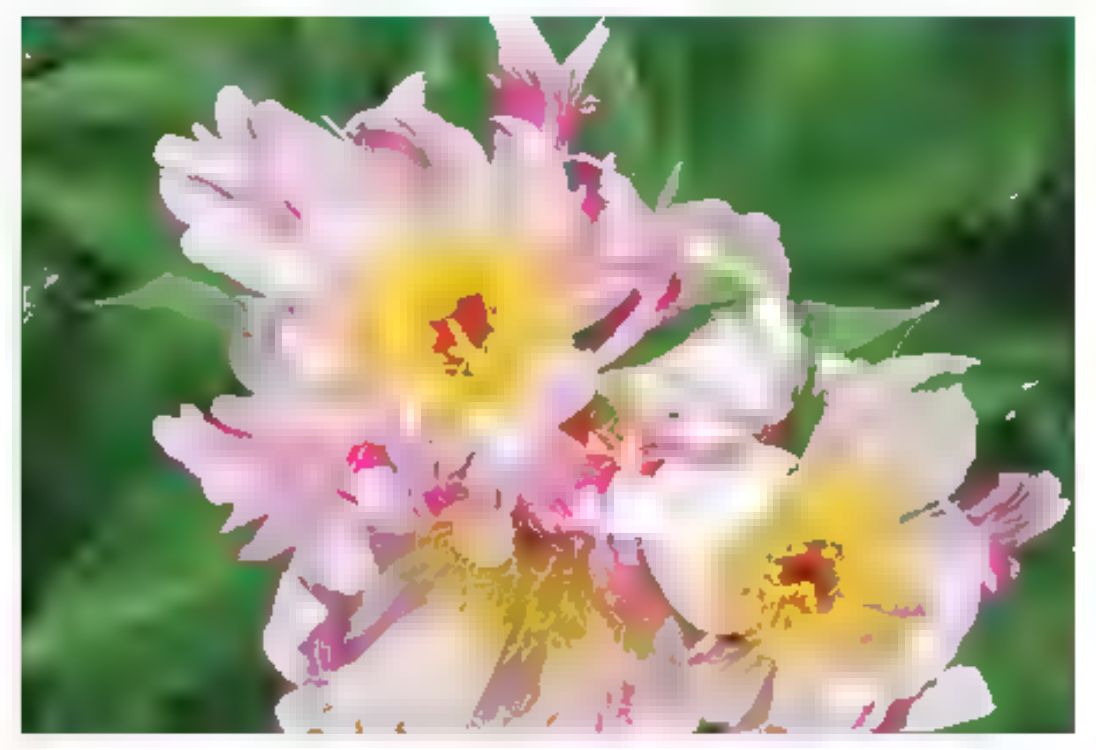
May
2011

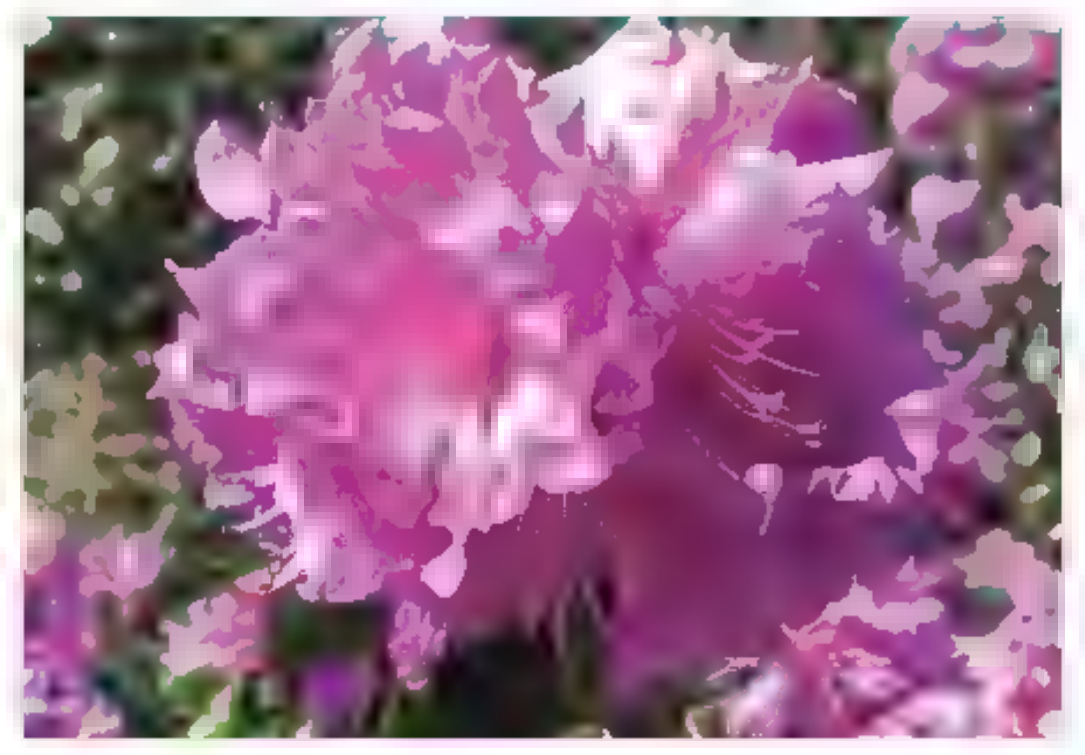
average temperature: low 56.6°, high 76.5°
average precipitation: 4.11 in.

What's in bloom?

download the podcast at www.gardeninghelp.org

rose


peony


rhododendron

weigela

viburnum

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
01 TREEmendous Forest Festival. 9 a.m.	02	03 Little Acorns: Babies at SNR. 10 a.m. SNR $ ☎	04 Morning Bird Walk. 8 a.m. SNR $	05 ✿ Members' Day: Bird Watching. 7:30 a.m. SNR	06	07 Greater St. Louis Dahlia Society sale. RVC Children's story time. 10 a.m. GGS Spring Wildflower Sale. 9 a.m. SNR $ Tea on the Terrace. 2 p.m. SNR $ ☎
08 MOTHER'S DAY 🌿 Mothers' Day Brunch. Greater St. Louis Dahlia Society sale. RVC Mother's Day event. Details TBD. BH	09	10 Spring Wildflower Walk. 9:30 a.m. SNR $	11	12 Native Plant School: Low Maintenance Groundcovers. 1 p.m. SNR $ ☎	13 Native Plant School: Low Maintenance Groundcovers. 1 p.m. SNR $ ☎	14 Discover Nature—Women Overnight. 9 a.m. SNR $ ☎ Gateway Chapter of the North American Rock Garden Society sale. RVC
15 Insect Display 101. 10 a.m. BH $ ☎ Great Green Adventures: Missouri Native Shade Garden. 10:30 a.m. and 1:30 p.m. CHD. $	16	17 Spring Wildflower Walk. 9:30 a.m. SNR $	18	19 Science Café. 7 p.m., Herbie's Restaurant. Native Plant School. 8 a.m. SNR $ ☎	20 Around the World Wine Dinner. 6:30 p.m. $ ☎	21 Chinese Culture Days. $ Discover Nature—Families: Signs of Spring. 9:30 a.m. SNR Seeing Nature through the Lens. 7 to 11 a.m. SNR $ ☎
22 Chinese Culture Days. $ Seeing Nature through the Lens. 7 to 11 a.m. SNR $ ☎	23	24 Spring Wildflower Walk. 9:30 a.m. SNR $	25	26	27	28 Rose Society of Greater St. Louis show and sale. Noon. RVC Wildflower Identification and Ecology. 9:30 a.m. SNR $ ☎
30	31 MEMORIAL DAY					

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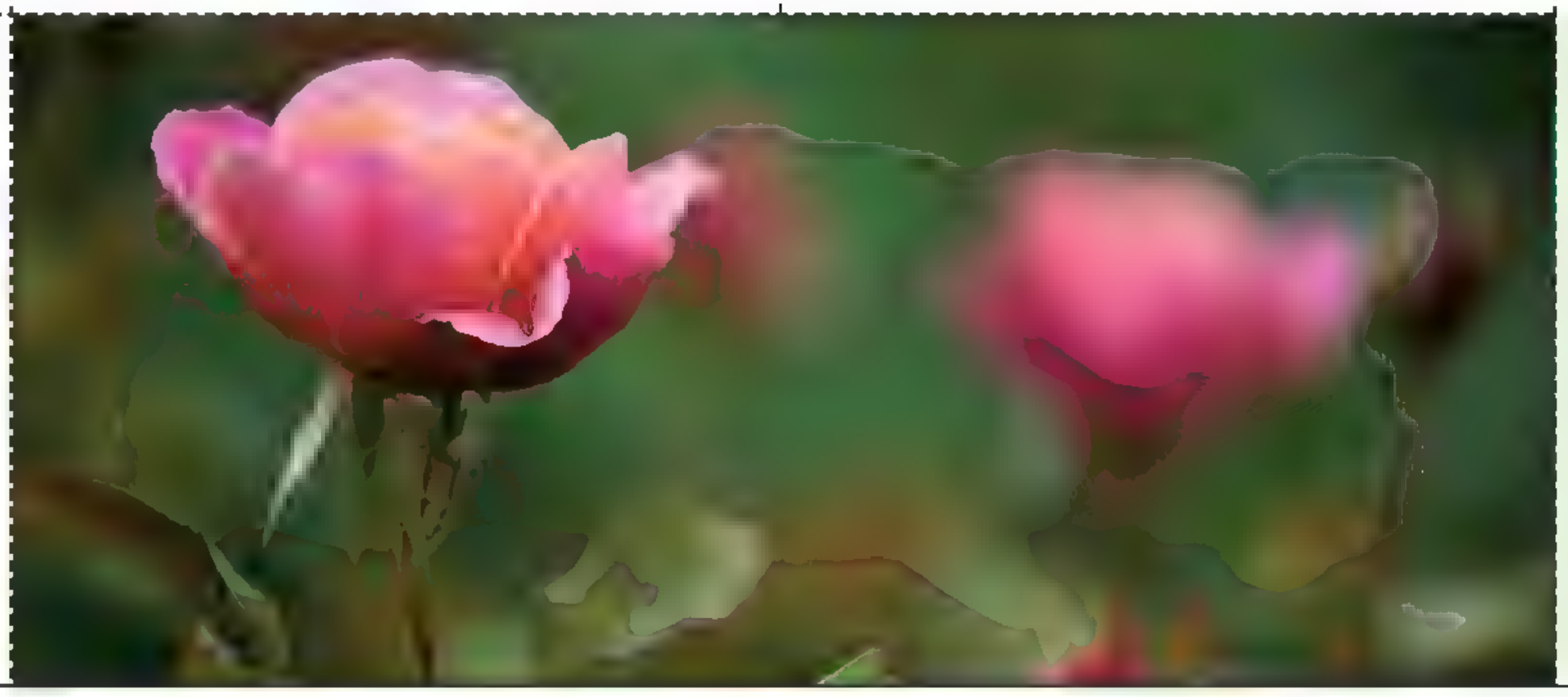

KEY *(All events take place at the Garden unless otherwise noted.)*

BH	Butterfly House	KC	Kemper Center for Home Gardening	SNR	Shaw Nature Reserve
CBEC	Commerce Bank Center for Science Education	LS	Little Shop Around The Corner	SP	Spink Pavilion
CHD	Children's Garden	MC	Monsanto Center	ST	Shoenberg Theater in Ridgway Visitor Center
CL	Climatron lawn	MH	Monsanto Hall in Ridgway Visitor Center	🌿	Sassafras
GGS	Garden Gate Shop	RVC	Ridgway Visitor Center	✿	Members-only event
JE	Jordan Education Wing in the Visitor Center			☎	Reservations required
				$	Fee required

photos by Tom Anson, Glenn Kopp, John Smelser, and Missouri Botanical Garden Plantfinder

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Missouri Botanical Garden

bulletin

Summer 2011 Vol. 99, No. 3 www.mobot.org

photo by Koraley Northen

President's Comment

All winter I have looked forward to experiencing my first spring at the Missouri Botanical Garden, and it has certainly not disappointed. We could all have done without the tornadoes. Spring may be an exciting time at the Garden, but that kind of excitement we will be happy to do without. The Garden was spared major damage, for which we are all very thankful. The seasonal reopening of the Children's Garden, Terrace Café, and Tower Grove House, as well as the resumption of tram tours, were accompanied by a spectacular display of spring flowering bulbs and the commencement of our TREEmendous schedule of activities celebrating the United Nations International Year of Forests.

This spring we also celebrated the four-decade legacy of the Garden's president emeritus, Dr. Peter Raven, when the Board of Trustees dedicated and renamed the Garden's library in his honor (see page 14). It is fitting that a botanical library recognized as one of the most important in the world should be named after the man who has been such an inspirational leader for the last four decades.

Sustainability informs all of our practices, and we continually seek to reduce our own environmental impact. We are expanding our composting program, our café is repackaging boxed lunches to be 100% compostable, and we are installing more water bottle filling stations throughout the Garden with an eye toward eliminating disposable plastic bottled water.

The Garden is so much more than the 79 acres of conservatories and horticultural displays in the city, or the nearly 2,500 acres of plant habitats at our Shaw Nature Reserve. Garden scientists conduct research in dozens of countries worldwide. Our members and volunteers take the message of the importance of plants to the wider public. Great examples of our valuable conservation work are the Center for Conservation and Sustainable Development's studies in central Tennessee (see page 8). All of these contribute to achieving the United Nations' Global Strategy for Plant Conservation, an important responsibility adopted by the Garden. We are formulating a new strategic plan for the Shaw Nature Reserve that will link the Reserve even more closely with the Garden and capitalize on its unique features to solidify contributions to the global strategy.

Botanical gardens play a leading role in safeguarding our planet's biodiversity. This September, I'll give a talk exclusively for our Garden members on Botanical Gardens and Plant Conservation. We'll meet in Shoenberg Theater at 10 a.m. on Tuesday, September 20. I do hope you'll come.

Peter Wyse Jackson

Dr. Peter Wyse Jackson, *President*

To discover and share knowledge about plants and
their environment in order to preserve and enrich life.
– mission of the Missouri Botanical Garden

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On the Cover:

Sassafras grove in the Mausoleum grounds. Photo by Paul Straatmann.

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except December 25.
Outdoor walking hours begin at 7 a.m. Wednesday and Saturday.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

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photo by Benjamin Staver

The renovation to the Linnean House included an all new glass roof and in-ground heating system.

Linnean House Reopens

The Linnean House, the oldest greenhouse in continuous operation west of the Mississippi River, has reopened after a more than 10-month, $1.5 million renovation that includes a new all-glass roof, repairs to doors, windows, and brickwork, and an in-ground heating system. The renovations were made possible by a generous gift from the Mabel Dorn Reeder Foundation; Dr. Mabel L. Purkerson, Trustee; and the estate of Mr. Downing Jenks.

Built in 1882, the Linnean House has mainly served as a home for the Garden's camellia collection since the 1930s. The renovation also restores a portion of the conservatory to its original function as an orangery to overwinter citrus trees, palms, and ferns.

During renovations, the camellias were removed and stored temporarily at a greenhouse in Ste. Genevieve, Mo. The collection has returned along with pink jasmine vines (*Jasminum polyanthemum*) and the fragrant olive trees (*Osmanthus fragrans*).

Nigel Mooney Encore

Jazz fans who didn't get enough of Nigel Mooney at the Whitaker Music Festival on June 29 won't want to miss an exclusive encore performance and wine tasting on Thursday, June 30.

Sponsored by Schnuck Markets, Inc., the event takes place at 6 p.m. in the Ridgway Visitor Center. Enjoy a champagne reception prior to a 6:30 p.m. performance by Mooney, followed by fine wine and food pairings under the stars.

Nigel Mooney is widely regarded as Ireland's leading jazz singer and guitarist. A charismatic figure on the Dublin jazz and blues scenes since the early 1980s, his Gripewater Blues Band spearheaded the blues movement in Ireland and drew many fans of both jazz and the blues. The Dublin native's first album, "All My Love's In Vain" (Rubyworks), was released in 2005 to critical acclaim and has become one of Ireland's highest selling albums by a jazz artist.

Tickets are $100 per person. Proceeds from the event will support the Garden's annual Henry Shaw Fund appeal. For reservations, please call (314) 577-9500 or email heidi.dowgwillo@mobot.org.

In Memoriam Nancy Morrill Smith *1918–2010*

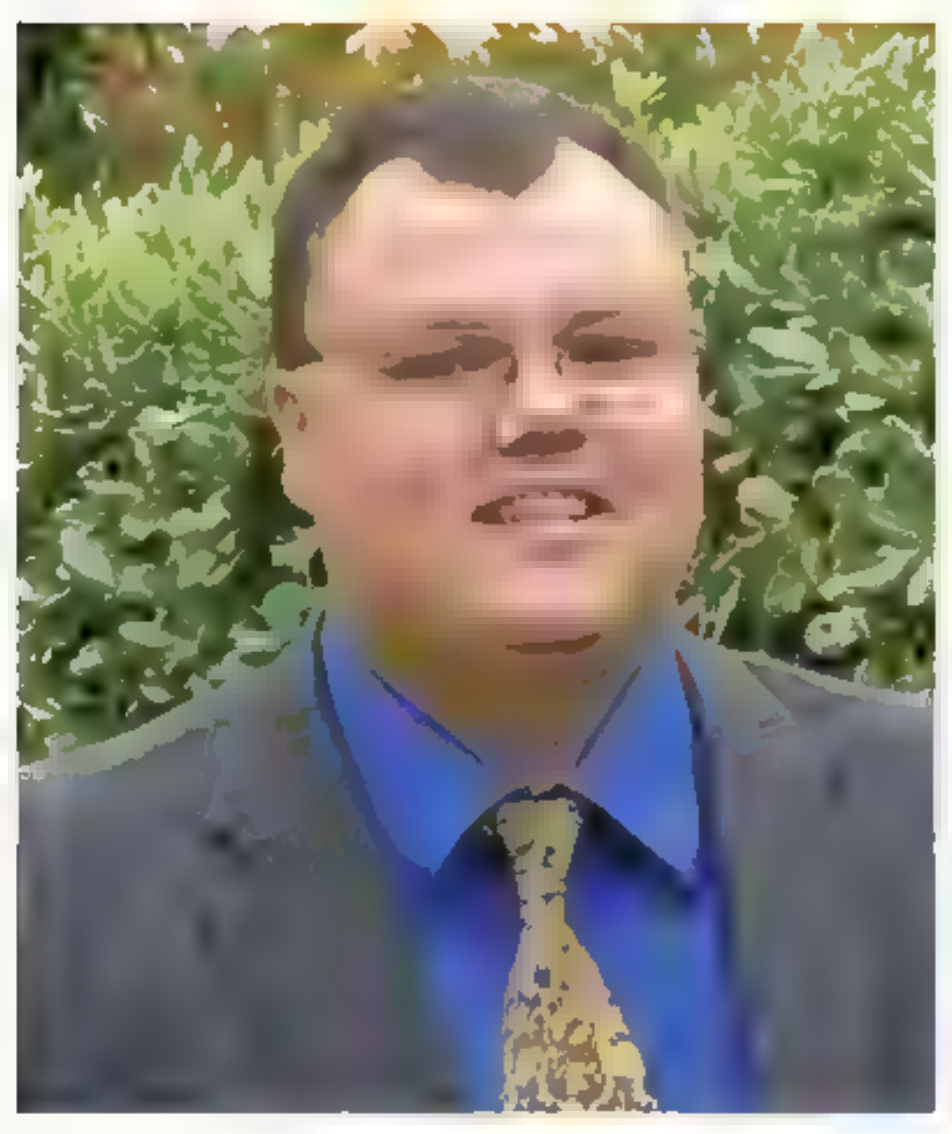
Nancy Morrill Smith, a longtime friend of the Missouri Botanical Garden and wife of the late Garden Trustee and Board Chairman Robert Brookings Smith, died Monday, December 27, 2010. She was 92.

The couple encouraged and supported a renaissance of the Garden during an era in which public interest had waned. Among projects to which they contributed were construction of the Climatron®, which was built in 1959 during Mr. Smith's term as chairman, and later the Brookings Interpretive Center.

Nancy Smith and her husband also were generous to several other St. Louis organizations, including Washington University, Opera Theatre of St. Louis, and Mary Institute and St. Louis Country Day School.

Mrs. Smith is survived by daughter Sally Smith Duffield (Alexander), grandson Brian Brookings Romanski, and sister-in-law Irene Randolph Morrill. She is preceded in death by her husband and a daughter, Susan Smith Romanski.

Andrew Wyatt Named VP of Horticulture



The Missouri Botanical Garden has named Andrew Wyatt vice president of Horticulture. Wyatt's experience spans nearly two decades as a leader in both living collections and botanical garden management.

"It is an honor to join a botanic garden that has had such a profoundly positive impact on conservation, research, and education at the international, national, and local level," Wyatt said. "I am very much looking forward to helping the Missouri Botanical Garden continue its success in the future."

Originally from Oxford, England, Wyatt has spent the past several years at the Santa Barbara Botanic Garden in California, most recently as interim director. Prior to that he worked at the Royal Botanic Gardens, Kew; the Chicago Botanic Garden; and the University of Oxford Botanic Garden.

Wyatt has received several awards including the Outstanding Conservation Study Award, Outstanding Dissertation Award, and Top Student Award for the Kew Diploma. He won three design competitions for plantings at Writtle University and three gold medals for exhibition gardens at the Chelsea Flower Show. Wyatt's extensive research, writings, and work to recover museum collections after a natural disaster have made a significant impact on the industry.

Wyatt succeeds Jim Cocos who, after five years as vice president of horticulture, has elected to resume his former position as senior manager of horticulture.

photo by William Zbaren

Inside the Museum Building at the Missouri Botanical Garden

Garden Launches "American City: St. Louis Architecture" Exhibit

The Missouri Botanical Garden will present a photo exhibit this summer documenting many of the St. Louis region's architecturally significant structures, including three buildings at the Garden.

"American City: St. Louis Architecture" will be on display Friday, June 10 through Sunday, August 21 in the Garden's Ridgway Visitor Center. Among the over 70 large-scale color photographs by William Zbaren of the city's most important structures are the Linnean House, Climatron® conservatory, and Museum Building. They are drawn from the book *American City: St. Louis Architecture*, with essay by architectural writer Robert Sharoff. The book is available in the Garden Gate Shop. An opening reception and book signing will be held Friday, June 10, from 5 to 7:30 p.m. in the Visitor Center.

A portion of the funds raised from the exhibit will go toward the future renovation of the Museum Building, which housed the Garden's original library and herbarium. The building is currently closed to the public.

The exhibit is included with Garden admission.

green homes
great health
FESTIVAL

Green + Healthy = Fun

Two great Garden events are joining forces this year to help your family live green—and live healthier!

The Green Homes & Great Health Festival on Saturday, September 24, merges the EarthWays Center's 10th annual Green Homes Festival with the Garden's Healthy You Healthy Planet Festival. The event combines a celebration of sustainable living with the resources of Siteman Cancer Center, Barnes-Jewish Hospital, and Washington University School of Medicine.

Bring your home improvement ideas and talk with over 100 green product and service exhibitors. Discuss your health questions with BJC doctors and other professionals. Enjoy local foods, yoga and tai chi, live music, and solar car races. Take advantage of free health screenings and shop the Green Marketplace. Help paint a Metro bus and explore the giant inflatable human colon. Learn from expert workshops and talks about the many ways that plants, air, water, soil, and energy sustain our homes, our health, and our planet.

The Green Homes & Great Health Festival is included with regular Garden admission.

photo by Christy Siebert

Help paint a Metro bus at this year's festival.

photo by Benjamin Staver

From left: Brentwood Alderwoman B. Clements, Garden President Dr. Peter Wyse Jackson, Missouri DNR Director Sara Parker Pauley, MSD Executive Director Jeffrey Theerman, Mount Calvary Lutheran Church President Michael Murphy, Brentwood Mayor Pat Kelly, and Tracy Boaz of the Missouri Department of Conservation.

Deer Creek Project Highlights Rain Garden

The Missouri Botanical Garden has partnered with the Deer Creek Watershed Alliance and others on a demonstration rain garden at Mount Calvary Lutheran Church in Brentwood. Installation of a 3,000-square-foot bio-retention system and over 10,000 square feet of Missouri native plants began this spring at the church, located in the Deer Creek Watershed. The rain garden is designed to catch and slow the movement of storm water from the church's parking lot into Deer Creek by allowing storm water to infiltrate the soil rather than enter storm water sewers.

"We hope the scientific data collected from this project will inform sound community decision making well into the future," said Dr. Peter Wyse Jackson, president of the Garden.

Studies show that storm water runoff to sewers is responsible for a large amount of the pollution found in our rivers. A rain garden acts as both a sponge and a filter to capture storm water and the pollutants it carries with it. In addition to storm water management, rain gardens beautify property, create habitat for wildlife, and can save tax dollars by reducing the need to build bigger storm water drainage facilities.

A key goal of the Deer Creek Watershed Alliance, a project of the Garden, is to showcase plant-based projects that reduce water pollution. Mount Calvary Rain Garden partners include the Metropolitan St. Louis Sewer District, Missouri Department of Natural Resources, and Washington University.

Follow-up monitoring will take place over a five-year period to measure the project's effectiveness in improving water quality.

Garden Researchers Help Identify New Genus

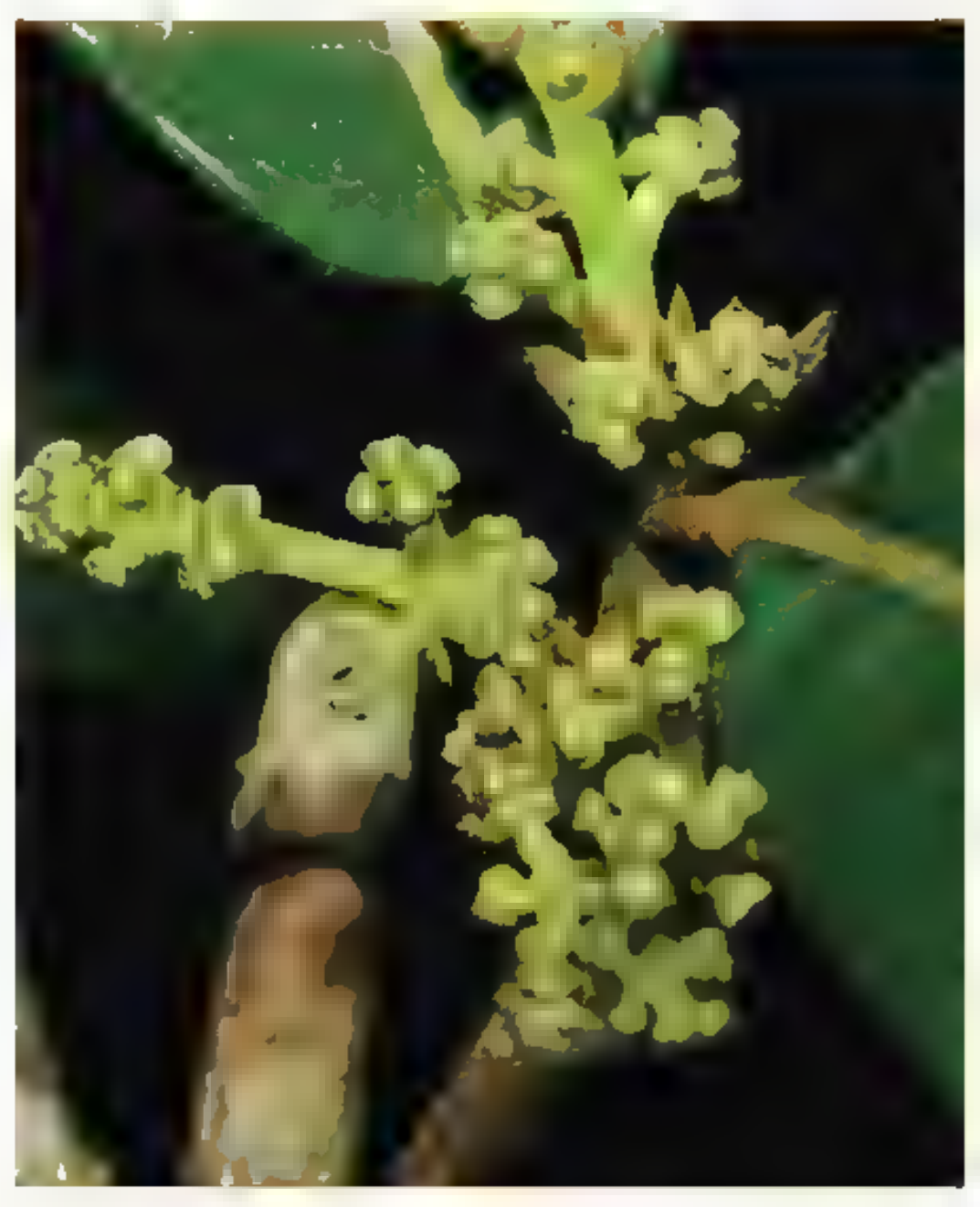


photo by Alvaro Perez Castaneda

Yasunia sessiliflora *is one of two species in the newly identified genus.*

The Missouri Botanical Garden has played a significant role in identifying a new genus, *Yasunia*, with two confirmed species from Ecuador and Peru, *Y. quadrata* and *Y. sessiliflora*. New species are often found among the samples that are gifted to the Missouri Botanical Garden for identification. While hundreds of new plant species are identified each year, new genera are extremely uncommon, and being coupled with the two new species makes *Yasunia* very distinctive.

"There are many new species found mostly in the tropics each year," said Henk van der Werff, head of Monographic Studies at the Garden. "Typically, new species differ in minor characteristics from their close relatives. New genera differ in major characteristics from their relatives, and such a find is truly a matter of luck and perseverance."

In 1993, Garden staff member David Neill collected the first sample in the Amazon lowlands of Ecuador, yet it remained an undetermined specimen due to lack of detail. Local staff conducting floristic inventory in the Yasuni National Park collected additional specimens from a tagged tree, and it was determined that the characteristics present in the new specimens did not fit into any of the recognized neotropical genera of the Lauraceae family.

In 2003 the collection of the second species was located in the upper Rio Utiquinia in Ucayali (Peru) near the border of Brazil. In minor details, it is very different from the Ecuadorian species. DNA of the two *Yasunia* species and their related analysis may ultimately result in changes of the classification of the plant family.

"Usually, when a new genus is discovered, it is associated with only one species. It is very unusual to find two new species belonging to the same new genus. *Yasunia* with two new species is one of those very rare cases," said Van der Werff.

photo by Kate Lawless

For Charlotte Taylor (left) and Carmen Ulloa, every herbarium specimen has a story to tell.

Garden Curators in Encyclopedia of Life Podcast

Missouri Botanical Garden curators Maria del Carmen Ulloa and Charlotte Taylor were recently featured in the Encyclopedia of Life series *One Species at a Time*, which explores the planet's biodiversity by focusing on a single species in each podcast episode. Ulloa and Taylor spoke with host Ari Daniel Shapiro about the quinine tree (*Cinchona pubescens*), whose bark contains the quinine molecule and has been used as a fever remedy and anti-malarial medicine. To listen to the podcast, in which Ulloa and Taylor discuss the cloud forest habitat where *Cinchona pubescens* grows and the marvel found in centuries-old specimens from the Garden's world-class herbarium, visit education.eol.org/podcast/quinine-tree.

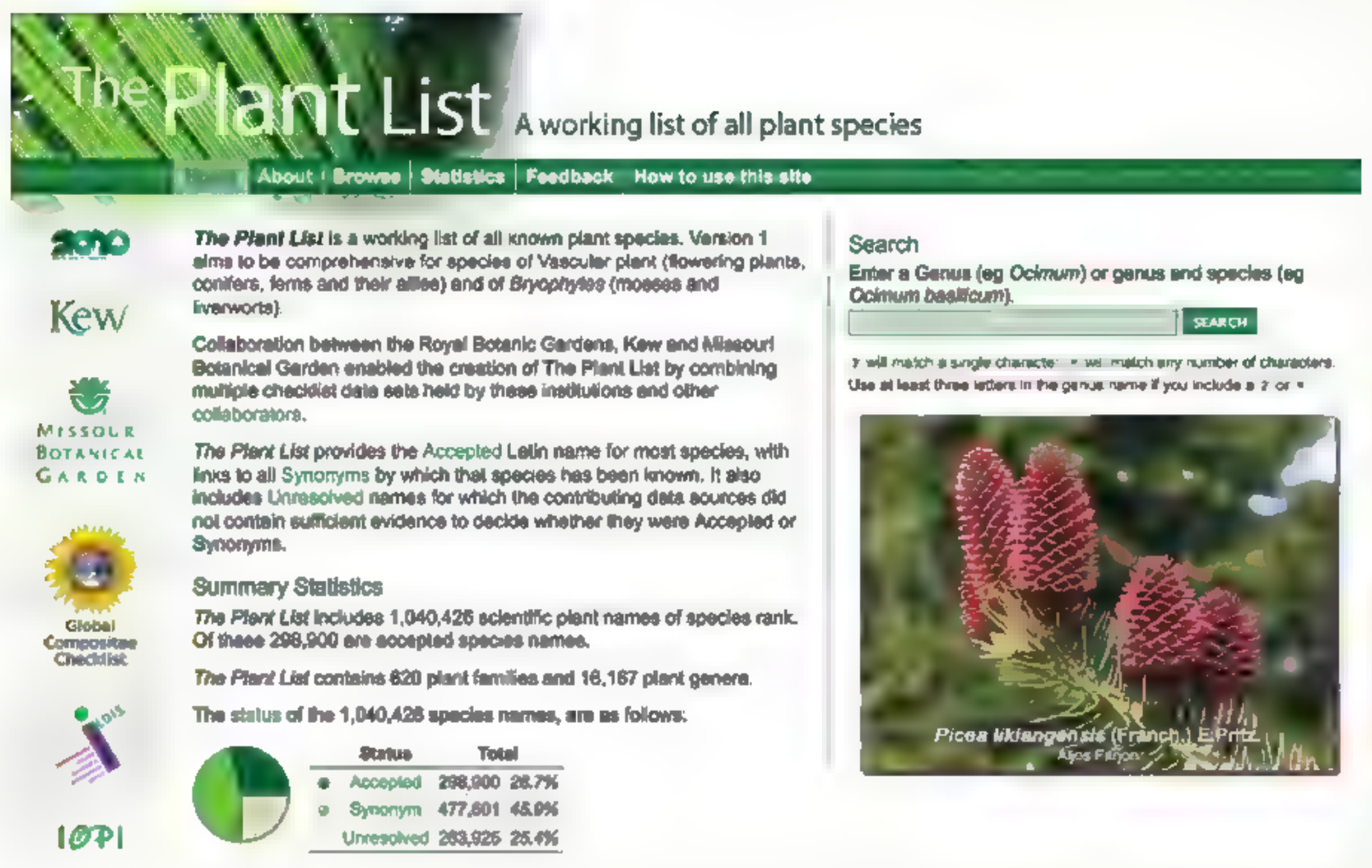
Garden to Host Global Partnership for Plant Conservation Conference

The Missouri Botanical Garden will host a conference of the Global Partnership for Plant Conservation this summer, bringing together plant conservation scientists, policy makers, and practitioners worldwide to share expertise on how the plant conservation community will support the implementation of the Global Strategy for Plant Conservation (GSPC) in the coming decade.

The conference will take place at the Garden July 5–7.

The GSPC highlights the importance of plants and the ecosystem services they provide for all life on Earth, and aims to ensure their conservation. It consists of 16 targets originally adopted in 2002 for achievement by 2010. The targets were recently revised and updated by the Convention on Biological Diversity setting goals for 2020.

The Garden is a member of the Global Partnership for Plant Conservation, which also includes Botanic Gardens Conservation International and the Royal Botanic Gardens, Kew.


The Plant List
A working list of all plant species
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Kew
Missouri Botanical Garden
Global Compositae Checklist
IOPI
SEARCH
Picea likiangensis (Franch.) E.Pritz.

The Plant List is a working list of all known plant species. Version 1 aims to be comprehensive for species of Vascular plant (flowering plants, conifers, ferns and their allies) and of *Bryophytes* (mosses and liverworts).

Collaboration between the Royal Botanic Gardens, Kew and Missouri Botanical Garden enabled the creation of The Plant List by combining multiple checklist data sets held by these institutions and other collaborators.

The Plant List provides the Accepted Latin name for most species, with links to all Synonyms by which that species has been known. It also includes Unresolved names for which the contributing data sources did not contain sufficient evidence to decide whether they were Accepted or Synonyms.

Summary Statistics

The Plant List includes 1,040,426 scientific plant names of species rank. Of these 298,900 are accepted species names.

The Plant List contains 620 plant families and 16,167 plant genera.

The status of the 1,040,426 species names, are as follows:

Status	Total	
Accepted	298,900	28.7%
Synonym	477,601	45.9%
Unresolved	263,925	25.4%

Search

Enter a Genus (eg *Ocimum*) or genus and species (eg *Ocimum basilicum*).

? will match a single character; * will match any number of characters. Use at least three letters in the genus name if you include a ? or *

www.theplantlist.org

The Plant List Featured at Britannica.org

The Missouri Botanical Garden's chief information officer, Chuck Miller, and Bob Magill, senior vice president of Science and Conservation, were featured on the Encyclopedia Britannica's blog (www.britannica.com/blogs) discussing the completion of The Plant List, a comprehensive online database of the names of all known plant species. From the origin of the binomial Latin naming system to the reasons one plant can have multiple names, Miller and Magill explain the origins of the list and why it's an important step toward a comprehensive world flora, which along with The Plant List is a goal of the Global Strategy for Plant Conservation.

To read the complete Q&A, visit www.britannica.com/blogs/2011/02/the-plant-list-5-questions-chuck-miller-robert-magill-missouri-botanical-garden.

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Little Shop, Big Sale

On July 15–17, the Little Shop Around the Corner will hold its first "sidewalk sale" in the Orthwein Floral Display Hall in the Ridgway Visitor Center. We are clearing out old inventory to make room for great new donations.

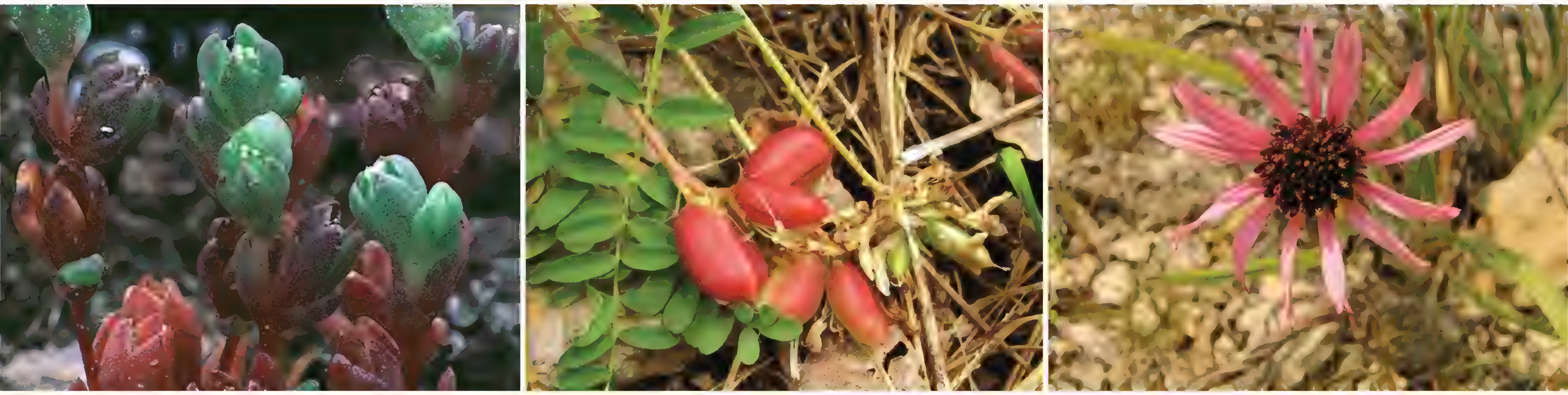
Think you've seen everything when you've visited the Little Shop? Think again! The shop can only display less than half of its merchandise. Many great bargains will be available.

Don't miss the member and volunteer preview on Friday, July 15, from 9 a.m. to noon.

Conserving Endangered Species in the Midwest

The Missouri Botanical Garden conducts endangered species conservation and scientific research throughout the world, from the Andes of Peru to the island of Madagascar. It also conducts this work in the Midwestern United States, for example, in a handful of locations outside Nashville in Rutherford County, Tennessee.

There, the Garden's Center for Conservation and Sustainable Development (CCSD) is studying the tiny Pyne's ground-plum (*Astragalus bibullatus*), which is endemic to about half a dozen limestone glades in the region. In collaboration



*Top: MBG Curator Dr. Matthew Albrecht counts flowers for a demographic study of Pyne's ground-plum (*Astragalus bibullatus*). Above: Rare and endangered plants under study by the CCSD include (from left)* Geocarpon minimum, Astragalus bibullatus, *and* Echinacea tennesseensis.

with state and federal agencies, the CCSD is restoring *Astragalus* populations to habitats in the nearby Stones River National Battlefield and other natural areas.

The region harbors a number of unique species, three of which are federally endangered.

The CCSD works to conserve, manage, and restore this and other native plant populations in the lower Midwest, including several globally endangered species. Thanks to a $318,215 National Leadership Grant from the Institute of Museum and Library Services (IMLS), Dr. Matthew Albrecht, CCSD conservation biologist, will lead a study investigating the ways in which global climate change might alter the extinction risk to plant species and plant populations.

"We're working with the rarest of rare species in the Midwest," Albrecht said. Photos of the species studied in the program decorate the walls of his office, and several small pots display living specimens of the plants. "My goal is to get all of the plants we're studying in my office so that I can show them to visitors."

The IMLS-funded study will lead to the development of species distribution models to assess the responses of over 100 species to future possible climate change.

"There are many species at risk," Albrecht said. "How do we prioritize the ones we work on? That's one of the key questions: to understand where we should be putting our resources. To select the species to be assessed, we're going to use an index developed by The Nature Conservancy to assign vulnerability rankings to about 150 species in the lower Midwest, to determine how vulnerable they are to future climate change, and also to future land use change.

"Land use change is the No. 1 factor that threatens plant species," Albrecht said. "That's what's happened in Tennessee. All of these species were probably rare to begin with. But since Euro-American settlement, in 200 years about 95 percent of their glade habitat has been lost."

Another endangered species under study is the aptly named Tinytim (*Geocarpon minimum*), found in sandstone glades in southwestern Missouri and saline barrens in Arkansas, Louisiana, and Texas. From an evolutionary point of view, it's a unique plant.

"There is nothing else in its genus, and it does not appear to be closely related to any other living plants in its family," Albrecht said. "That, to me, increases its conservation value as a unique species. It may offer us something to learn about how plants survive over long periods of time: Why is it that *Geocarpon* didn't go extinct, while other species living nearby during past climate changes did?"

photo by Burgund Bassüner

The CCSD's seed bank contains hundreds of thousands of seeds representing 35 rare and endangered plant species.

Providing A Safety Net

In addition to monitoring plant populations in the field, the CCSD maintains a seed bank of 35 rare and endangered plant species as part of its collaborations with government agencies and its work with the Center for Plant Conservation, a national network of botanical gardens and arboreta dedicated to conserving native plants in the United States. The bank, located in the Garden's Commerce Bank Center for Science Education, contains thousands of seeds collected over the past two decades, some of which represent populations that have gone extinct in the wild. Seeds are cleaned and dried, then stored in airtight containers at minus 20 degrees Celsius.

The seed bank not only provides a hedge against extinction in the wild but also supplies the specimens for reintroductions such as that being carried out with *Astragalus* in Tennessee.

How You Can Help

The CCSD seeks volunteers to help with its temperate plant conservation program. There are a number of opportunities to participate—from counting and processing seeds for long-term storage to entering information in electronic databases. Connect with people and plants close to home, and help protect the nation's natural heritage. For information, contact Jackie Juras at jackie.juras@mobot.org or (314) 577-5187.

FAMILY TREES

Connect with the forest around you

by Sheila Voss, Vice President of Education

She welcomed me every day after school. Her branched, low-to-the-ground trunks beckoned my siblings and me to climb and explore. She graciously permitted us to string holiday lights around her limbs. Under her canopy, she mothered a lush groundscape of ferns while we hung bird feeders and grade-school art projects on her branches. Her massive, fragrant blooms often graced our kitchen table. And her numerous, big, waxy leaves vexed our neighbor in his pursuit of a debris-free driveway.

photo by Trish Sullivan

The southern magnolia still shelters ferns in front of Sheila's family home.

The trees among us witness the drama of our lives. Many hold special places in our hearts and minds. But those same trees experience a dramatic and still not fully understood life of their own.

Imagine a giant set of scales. Now imagine all the organisms on Earth on those scales. Trees alone would account for 80 percent of the total. Trees serve as the primary source of fuel, food, clothing, and livelihoods for much of the world's human population. Today, however, more than 8,000 tree species around the world are at risk of extinction, primarily due to habitat loss, overharvesting of timber, and climate change. Closer to home, once-ubiquitous U.S. trees like American elms, sycamores, and chestnuts have been nearly decimated by invasive pests and diseases.

Similar to the story of all at-risk species, the central role trees and forests play in human lives doesn't reconcile with the human behaviors contributing to their demise. We've written famous odes to trees, yet still purchase products made from unsustainably managed forests. We plant saplings yet rip healthy ones out of the ground if they get in our way. The disconnections are numerous.

So, how best to repair this relationship? With 2011 as the official U.N. International Year of Forests, the Missouri Botanical Garden is shining a much-deserved spotlight on trees and the critical roles they play. Throughout the year, we're inviting the entire St. Louis community to join us: by marveling at Extreme Tree Houses, participating in The Great St. Louis Tree Hunt, or sharpening their tree IQ with year-round tours, classes, workshops, speakers, and films. Throughout it all, we're adding our voices to the international community as we rally together to rethink our actions and pledge anew to conserve forests close to home and around the world.

That southern magnolia still stands in front of my parents' house in Florida. While disease has taken a portion of her, she is the matriarch of Darcey Drive—among the biggest, most wide-spreading canopied trees in the neighborhood. She still welcomes me when I visit, now with my little ones in tow. Today, the trees in my Edwardsville home and I are on a first-name basis. Grandmother Willow listens to our hopes and dreams. Arthur Ash serves as third base for pick-up baseball games. Maple gives us a close-up view of the robin's nest she cradles every year. Pop Pop's Magnolia reminds us of loved ones we miss. Calling them by personal names, while fully knowing the complexity of the bigger human–tree story, is just one small way my little family is attempting to get back on good terms with these fantastic life forms.

TAKE PART IN THE GREAT ST. LOUIS TREE HUNT!

Download a brochure at www.mobot.org/treemendous

the great St. Louis Tree Hunt

Through September 2011

Presented by Gamma Tree Experts

photo by Paul Straatmann

TAKE TIME TO THANK A TREE

1. **Get to know them.** Whether you're a tree expert or novice, pledge to increase your tree IQ this year.
2. **Appreciate their unique traits.** Some trees make great shade trees near buildings while others need more room to spread out. Know what you've got, and give it everything it needs to survive and thrive.
3. **Nurture the young ones.** Plant young trees during the spring or fall, in your own home landscape or neighborhood.
4. **Care for the old ones.** Mature trees do the heavy lifting in terms of ecosystem services, including cleaning our air, cooling our homes, and managing our storm water runoff. Treat them well—don't top your trees, and always use a professional arborist for any tree care needs you have.
5. **Visit them often.** Seek out your favorite trees and enjoy life in their presence. Read, relax, play, ponder, create, celebrate—or just take a nap. A shade canopy somewhere is calling your name.

Sophia M. Sachs
Butterfly House

TREES
AND THE BUTTERFLIES THAT LOVE THEM

Mention butterfly gardening, and large tree species are probably not the first plants that come to mind. However, many trees are critical host plants for native butterfly caterpillars, which rely on the leaves of these trees for their survival. They also serve as wonderful additions to a large butterfly garden or yard, as many trees also provide nectar to the adult butterflies.

TREE	BUTTERFLY
Tulip poplar, *Liriodendron tulipifera*	Tiger Swallowtail
Black cherry, *Prunus serotina*	Tiger Swallowtail
Pawpaw, *Asimina triloba*	Zebra Swallowtail
Sweet bay magnolia, *Magnolia virginiana*	Tiger Swallowtail
Willow, *Salix* sp.	Red Spotted Purple and Viceroy
Dogwood, *Cornus florida*	Lycaenids
Redbud, *Cercis canadensis*	Multiple species

Many of these trees can be found at local nurseries and make a lovely and practical addition to the overstory layer of your garden. The Butterfly House has all of these and more in our Butterfly Garden and can provide information on their care. Together with other host plants and the usual cadre of nectar-producing annuals and perennials, these trees help make any butterfly habitat more attractive to our local species.

photo by Scott Woodbury

photo by Beth Haines

*The Tiger Swallowtail depends on the tulip poplar (*Liriodendron tulipifera*).*

photo by Mark Deering

*The desert around Tucson, Arizona is one of the destinations where Butterfly House staff collect insects such as the cactus longhorn beetle (*Monaleima gigas*).*

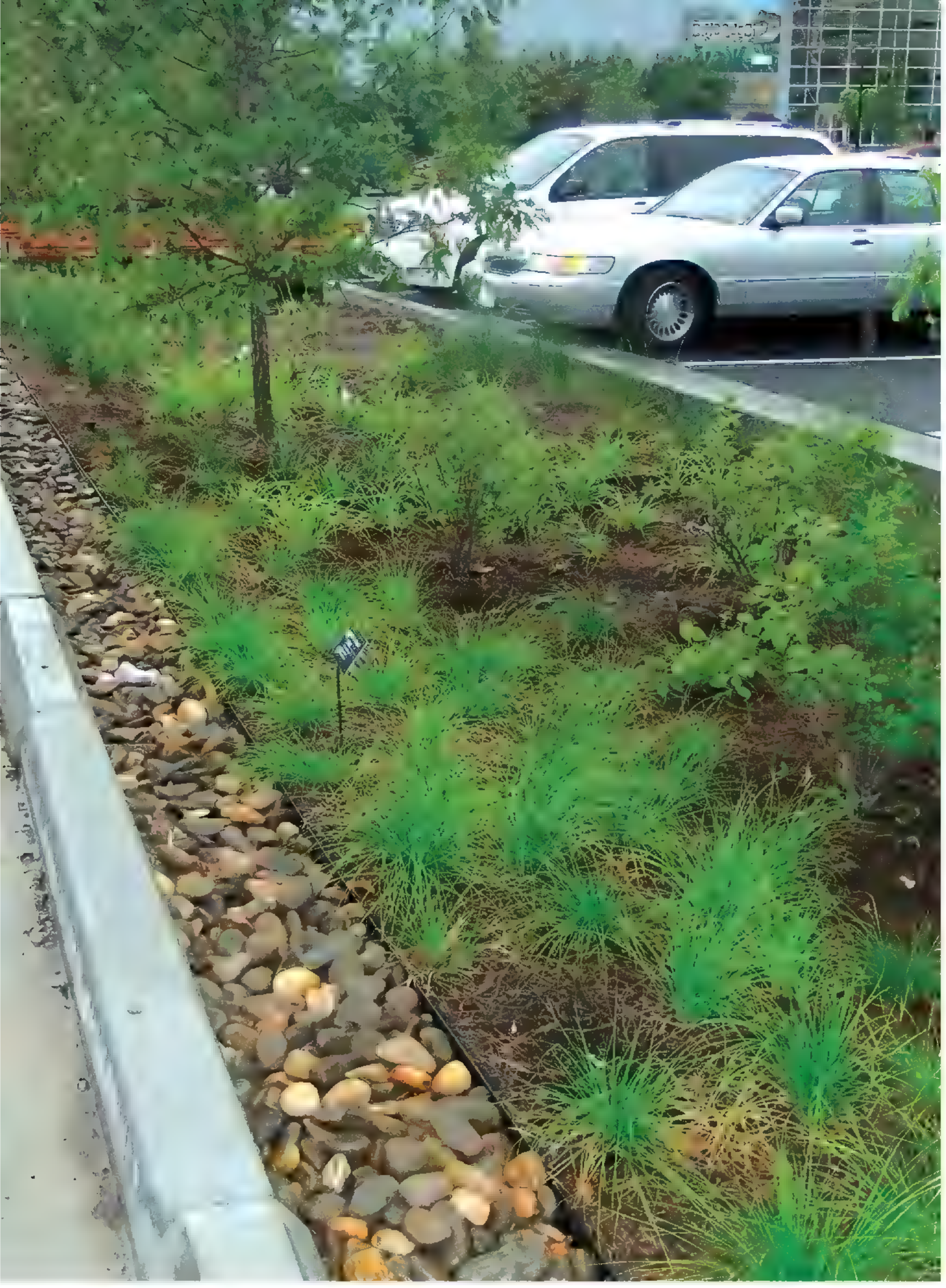
Hot Bugs!

Being cold blooded has its advantages, especially when it's 100 degrees outside. Many insects thrive in weather warm enough to make most of us run for shade and a cool drink. Each year in July, we travel to Arizona (as if Missouri were not hot enough!) to collect some of these wonderful specimens for our educational displays at the Butterfly House.

Want to see more hot bugs? Come over to the Butterfly House and view some of these desert-dwelling beauties.

A Greener Parking Lot That Can Soak up a Storm

By Scott Woodbury and Cindy Gilberg



The Garden's parking lot features a garden designed to soak up the rain and reduce pollution from storm water runoff.

The Missouri Botanical Garden's east parking lot has a new feature: a bioretention garden. Unlike other planting islands, it is sunken instead of raised and is planted with native species. Its concave shape gathers rain, sediment, and pollutants from the parking lot. The parking surface is sloped toward the garden, and curbing at the garden edge has openings that allow rain to flow in.

photo by Bill Hall

*Copper iris (*Iris fulva*) is one of many plants featured in the rain garden.*

Just inside the curb, a special rock filter captures heavy sediment and trash while lighter sediment and pollutants flow into the planting bed. Here a special rain garden soil absorbs water like a sponge while deep native plant roots increase water infiltration and filter pollutants like oil and salt. Flood-tolerant native wetland plants were selected for lower areas, and dry-loving plants for the upper areas. Plant selections are showy, long-lived, and compact. Flood-tolerant species include swamp white oak, river birch, bald cypress, winterberry holly, soft rush, palm sedge, bur sedge, copper iris, great blue lobelia, and orange coneflower. Dry-tolerant species are oak sedge, prairie dropseed, and prairie alumroot.

Bioretention gardens are similar to wetlands because they mimic natural water flow and have wetland plants that are native in the region. Across the country, professionals are using wetland plants native in their states in man-made storm water management practices. Closer to home, the horticulture staff at the Shaw Nature Reserve is collecting and evaluating wetland species in an effort to increase their use and availability.

The lot's permeable paving allows rainfall to soak through the surface and into the gravel and soil layers below. Combined with bioretention, this captures 100% of an average St. Louis rain event, which is 1.14 inches in a 24-hour period. One inch of rain per acre produces 27,000 gallons of storm water. Bioretention and permeable paving significantly reduce runoff, flash floods, soil erosion, and water pollution.

At the Shaw Nature Reserve, a series of storm water ponds and swales is part of the native landscape surrounding the new Edgar Anderson Center. The Reserve has applied to the U.S. Green Building Council for Silver LEED certification of this building and its associated landscape.

In keeping with a dedication to environmental education and sustainable practices, the new storm water features at the Shaw Nature Reserve and Missouri Botanical Garden serve as demonstrations where visitors can learn about the role native plants play in storm water management.

Trees Have a Positive Impact on Storm Water Management

Beyond the obvious benefits of shade, shelter, and aesthetics, trees also help reduce storm water runoff—the primary source of water pollution. Tree canopies slow down rainfall and lessen its impact on the soil surface. Tree roots soak up moisture and also open up the soil's structure, making it more permeable and absorbent. Evapo-transpiration of water from the surface of leaves and branches completes the list of ways in which trees use water.

Missouri native trees are excellent choices for use in the landscape. There are several moisture-loving species such as swamp white oak, green hawthorn, and bald cypress. Planting trees, especially in highly developed, urban areas, helps create a green infrastructure that has a positive impact on our community.

To learn more about using native plants in landscapes, visit the Whitmire Wildflower Garden at the Shaw Nature Reserve. This five-acre garden is used for teaching the Native Plant School.

SAVE THE DATE SAVE THE DATE SAVE THE DATE SAVE THE DATE

FALL WILDFLOWER SALE

Fri., Sept. 9,
4 to 8 p.m.

Seen at the Garden

Tribute to Peter H. Raven

Sunday, April 17, 2011

The Missouri Botanical Garden's Board of Trustees honored President Emeritus Peter H. Raven on April 17 by dedicating the Garden library in his name.

The library, one of the most comprehensive collections of botanical literature in the world, is housed in the Monsanto Center. It began during Henry Shaw's lifetime with 34 books that the Garden founder personally selected. Today it includes more than 200,000 monographs and journals and 6,000 rare books.

More than 300 people attended an event following the dedication, which featured a symphony by New Music Ensemble, a performance group based at the University of Missouri–Columbia and funded by the Sinquefield Charitable Foundation. Jeanne and Rex Sinquefield made the performance possible as a gift to Raven.

The Board of Trustees also created, in honor of Raven's wife, the Dr. Patricia D. Raven Horticulture Training Award, which will support specialized training for the Garden's horticultural staff.

The Ravens have devoted a combined 50 years of service to the Garden. Dr. Peter Raven began as director in 1971 and led the Garden's transformation into a horticultural masterpiece and world-leading institution in science and conservation.

photos by Josh Monken

Rex Sinquefield, Pat and Peter Raven, Jeanne Sinquefield

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Bill Danforth and Peter Raven

Jeanne Maritz, Carol and Fred Gaskin, Steve Maritz, and Kathryn and David Kennedy

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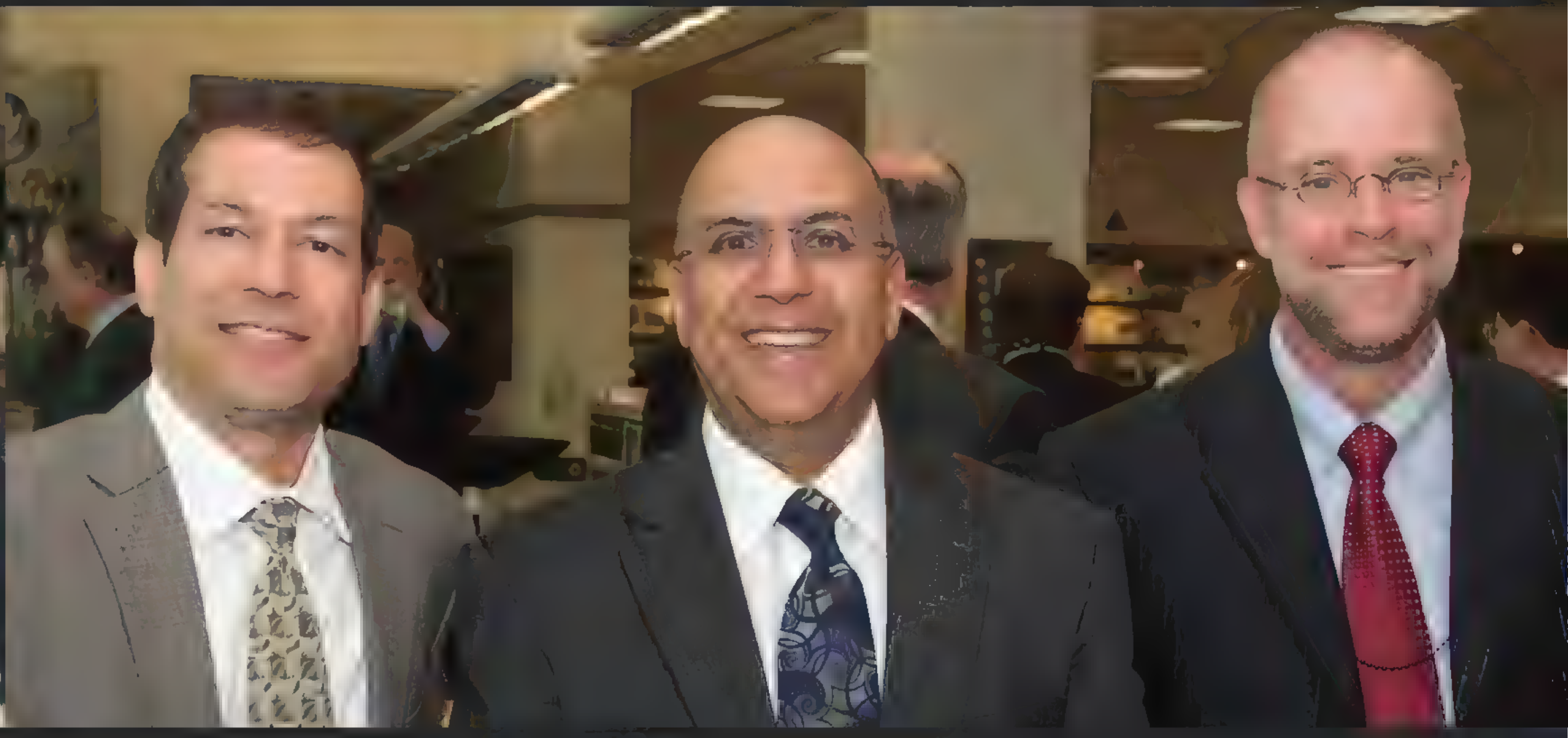

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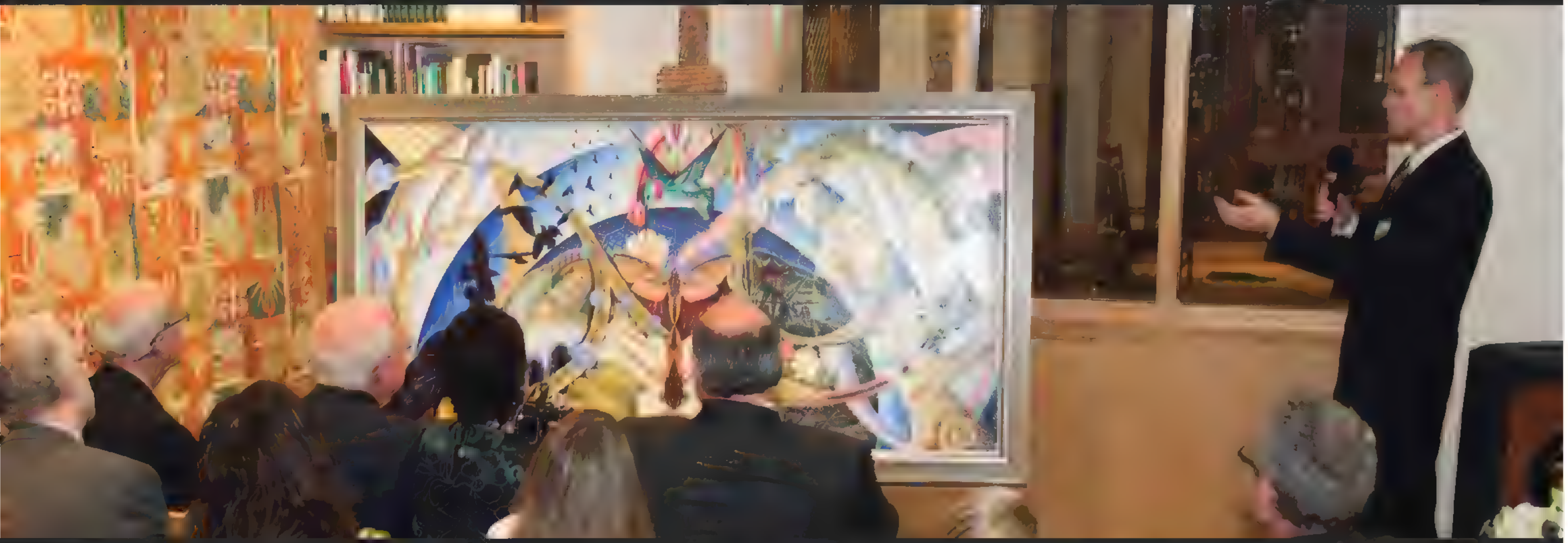

Artist Bryan Haynes presenting the painting that Novus International gave in honor of Dr. Raven

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photo by Benjamin Chu

Tributes *January through March 2011*

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin.* If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

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Mr. J. Edgar Withrow
Mr. and Mrs. James C. Walker, Jr.

Mrs. Miriam R. Wohlberg
Nancy, Jeff, Aubrey, and Julian

Mr. Harry E. Wuertenbaecher, Jr.
Mr. and Mrs. Kenneth A. Marshall

Mr. William A. Wyman
Mr. and Mrs. Thomas S. Lambert

Save the Date!
Nordstrom St. Louis Galleria Grand Opening Gala

Wednesday, September 21, 6 to 9 p.m.

Be among the first to step through the door to celebrate and preview the new Nordstrom St. Louis Galleria, before it opens to the public. Enjoy cocktails, dinner and dessert buffets, live entertainment, and incredible shopping. All proceeds will benefit signature projects of the Missouri Botanical Garden, COCA, Contemporary Art Museum St. Louis, and the Saint Louis Art Museum. Complimentary valet parking will be available.

Tickets are $75. For tickets, questions, or special accommodations information, call (314) 577-5152 or visit nordstrom.com/stlouisgalleria.

photo by Jennifer Meinhardt

Create a legacy

Leaving a bequest to the Garden creates a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected. Please call (314) 577-9495 for further information, or visit our website at www.mobot.org. Click on Donate, then Planned Giving.

photo by Lindsay Moser

Members' Entry Court

Bricks dedicated at the Garden, January through March 2011.

Engraved clay bricks and bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit www.mobot.org.

Signature Bronze Bricks

Kathy J. Judkins
Mr. and Mrs. Thomas V. Judkins, Jr.

John and Kib Michener
Mr. and Mrs. John Michener

Roy and Yoshie Morisaki
Mr. James T. Morisaki

Thelma Walker
Mr. Robert L. Walker

Elvira Raab Weber
Ms. Diane R. Koberna

Engraved Clay Bricks

George Braun and Nancy Riehl
Mr. George Braun and Ms. Nancy Riehl

Carolyn M. Buck
Mrs. Barbara Yale

Erline Andrews Frese
Mr. John F. Frese, Sr.

Erna Louise Hoffman
Ms. Marilyn A. McDonald

Bessie Irene Huber
Mr. Richard W. Huber

Iva Jeanne Kingsborough
Mr. and Mrs. Jerry Albers
Ms. Linda Dickenson
Mr. and Mrs. Ralph W. Fisher
Mr. and Mrs. Jon N. Hagar
Mr. and Mrs. Benjamin P. Hoffman
Dr. Virginia Navarro and Mr. Richard Navarro

Paul M. McClinton
Mr. Keith Mosier

Ula and Mac McClure
Ms. Maggie A. McClure

Robert E. Newcomer
Mrs. Kenneth Ponciroli
Mr. and Mrs. Robert L. Ponciroli
Mr. and Mrs. Benjamin S. Moore

Mr. and Mrs. John C. Nyren
Mr. and Mrs. John C. Nyren

Casey Elizabeth Wood
Mr. and Mrs. Thomas W. Kopp

terrace café

AT THE WILLIAM T. KEMPER CENTER FOR HOME GARDENING

Terrace Café in the Kemper Center for Home Gardening is convenient to the Children's Garden and features a kid-friendly menu of sandwiches, snacks, pizza, and desserts. Open 10 a.m. to 3 p.m. weekdays and to 4 p.m. on weekends, April through October.

Enjoy a lunch at
Terrace Café this summer!

Sophia M. Sachs Butterfly House Tributes & Pavers

To learn more about these opportunities, call (314) 577-0291 or visit www.butterflyhouse.org.

Pavers *dedicated at the Butterfly House, January through March 2011.*

Patsy Bell and Jeff Hobson
Mrs. Patsy Bell Hobson

Jane and Robert Bokel
Mrs. Anita Y. Baldwin

Savannah Elizabeth Carmichael
Ms. Judith A. Scott

Ava Nicole Dix
Mr. and Mrs. Douglas Adams

Joseph Jacob Eidelman
Sookey and Marty Ferman
The Forseters
The Goldsteins
Ed Landis
The Slakmans

Henry Joseph Elton
Ms. Judith A. Scott

Patti and Pat Harty
Ms. Kimberly Harty

Debbi Heffern
Kathy Heffern
Kevin Heffern
Pat Heffern
Karen Kijowski
Mike Piper
Barbara Shumate
Eileen Sypniewski
Kevin Sypniewski
Rich Sypniewski

Chaince Griffin Rittenhouse
Ms. Jeannine L. Muhn

Eden Grace Robinson
Ms. Judy Spelver

Carol Ann Rohrman
Mrs. Anita Y. Baldwin

Jennifer E. Sickbert
Mr. Douglas C. Sickbert

Marvin Taxman
Mr. and Mrs. Paul J. Taxman

Treemendous Gifts

In celebration of the Garden's yearlong salute to trees, the Garden Gate Shop is filled with a great selection of forest-themed gifts made from and inspired by nature. Members always receive a discount.

TREES & FORESTS
OF AMERICA
Tim Palmer

photo by Kate Lawless

GARDEN
GATESHOP.ORG

All proceeds benefit the Missouri Botanical Garden.

Story Time!

Join us for story time and receive 10% off all children's books on story time day. Gather around the sofa in the book area at 10 a.m. to hear stories from the following great books:

June 4: *Water Weed and Wait* by Edith Hope Fine and Angela Demos Halpin and *The Crows of Pearblossom* by Aldous Huxley

July 2: *Wangari's Trees of Peace: A True Story from Africa* by Jeanette Winter and *Oh No, Monster Tomato!* by Jim Helmore and Karen Wall

August 6: Chicken stories, *Chicken Bedtime is Really Early* by Erica S. Perl and *Chicken Big* by Keith Graves

Events

whitaker
MUSIC FESTIVAL
2011
Funded by the
Whitaker Foundation

WEDNESDAYS
June 1–August 3

CONCERTS AT 7:30 P.M.
free admission after 5 p.m.
last entry at 9 p.m.

Warm evenings once again will bring hot music to Cohen Amphitheater this summer. Bring a blanket or chairs, and pack a picnic or purchase on site—it's one of the few times of year picnicking is permitted on Garden grounds! (Leave Fido and the barbecue grill at home, though.) The Children's Garden remains open with free admission from 5 to 7 p.m.

JUN	01	Gumbohead
	08	Teddy Presberg
	15	Hudson and the Hoo Doo Cats
	22	The Jenny Kavanaugh Band
	29	Nigel Mooney
JUL	06	Marquise Knox
	13	Western Satellites
	20	Billy Peek
	27	The Erin Bode Group
AUG	03	Pokey Lafarge and the South City Three

Extreme Tree Houses | *Through August 21*
Branch out from the ordinary notion of tree houses! Get an up-close look at the winners of our competition beneath the canopy of the Garden's trees. The exhibit is part of the TREEmendous year at the Garden, a celebration of the U.N. International Year of Forests. Sponsorship support by Ameren Missouri, Gamma Tree Experts, Macy's, Novus International, and the U.S. Green Building Council–Missouri Gateway Chapter.

TREEmendous Great St. Louis Tree Hunt | *Through September 30*
Presented by Gamma Tree Experts. Find 15 of 30 marked TREEmendous Trees throughout the metro region (including Missouri and Illinois). Download an area guide, clue map, and photo journal at www.mobot.org/treemendous. Bring the completed guide to the Garden's TREEmendous Interactive Discovery Center to receive a special tree-themed reward. (The Discovery Center is open through January 3, 2012.)

Illinois Appreciation Week | *June 5 through 11*
Illinois residents receive half-price Garden admission (a $4 value), a 10 percent discount in the Garden Gate Shop, and a 20 percent discount off new or gift memberships purchased this week.

Happy Birthday, Henry! | *Sunday, July 24, 10 a.m. to 3 p.m., Spoehrer Plaza*
Celebrate the Garden founder's 211th birthday by enjoying free admission to the Garden all day, family fun, and old-fashioned entertainment including an organ grinder, silhouette artist, stilt walker, and more.

Just for Members

Rose Evening

Monday, June 6, 6 p.m., Gladney and Lehmann Rose Gardens
Take an evening stroll while enjoying the beauty and fragrance of the rose gardens during peak bloom. Free for members and their guests. Appropriate for all ages. Information: (314) 577-5118.

St. Louis Garden Tour 2011

Sunday, June 12, 10 a.m. to 4:30 p.m.
rain or shine
Tour eight of the loveliest private gardens in St. Louis. Self-guided tickets are $50, Tickets including bus transportation and box lunch are $75. Reservations required; www.mobot.org or (314) 577- 5180.

Young Friends' Climatron & Cocktails

Tuesday, June 14, 5:30 to 9 p.m.
Celebrate summer with the Young Friends of the Garden and St. Louis Public Radio. $15 for Garden or St. Louis Public Radio members; $30 nonmembers. Reservations required; www.mobot.org or (314) 577-9570. Information: (314) 577-9532. Supported by Purus Vodka.

Midsummer Night's Dance

Friday, June 17, 6 to 10 p.m., Spink Pavilion
$70 per person; $60 for Garden members. Reservations required; (314) 577-9570 or www.mobot.org/events/midsummer. Information: (314) 577-5154. Supported by Purus Vodka.

Musical Evening

Tuesday, June 21, 6 p.m. Spoehrer Plaza
Information: (314) 577-5118.

Family Picnic

Friday, July 8, 6 p.m., Cohen Amphitheater
Free for Garden members and their guests. Advance reservations required; (314) 577-9570. Information: (314) 577-5154.

Corporate Partners Day

Sunday, August 14
Employees of the Garden's Corporate Partner firms receive free admission for two adults and all children ages 12 and under to the Garden and Doris I. Schnuck Children's Garden, and discounts on new or upgraded Garden memberships and on purchases at the Garden Gate Shop. For a list of current Corporate Partner firms, visit www.mobot.org/corporate/current.asp.

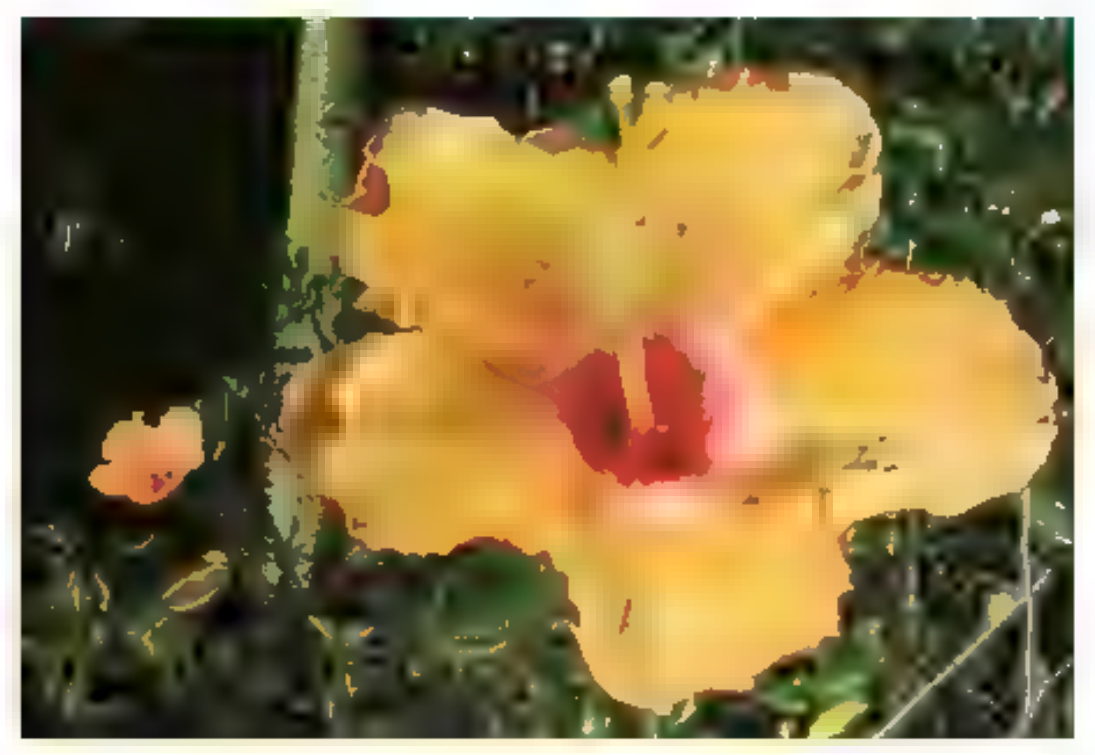
June 2011

average temperature: low 65.9°, high 85.3°
average precipitation: 3.76 in.

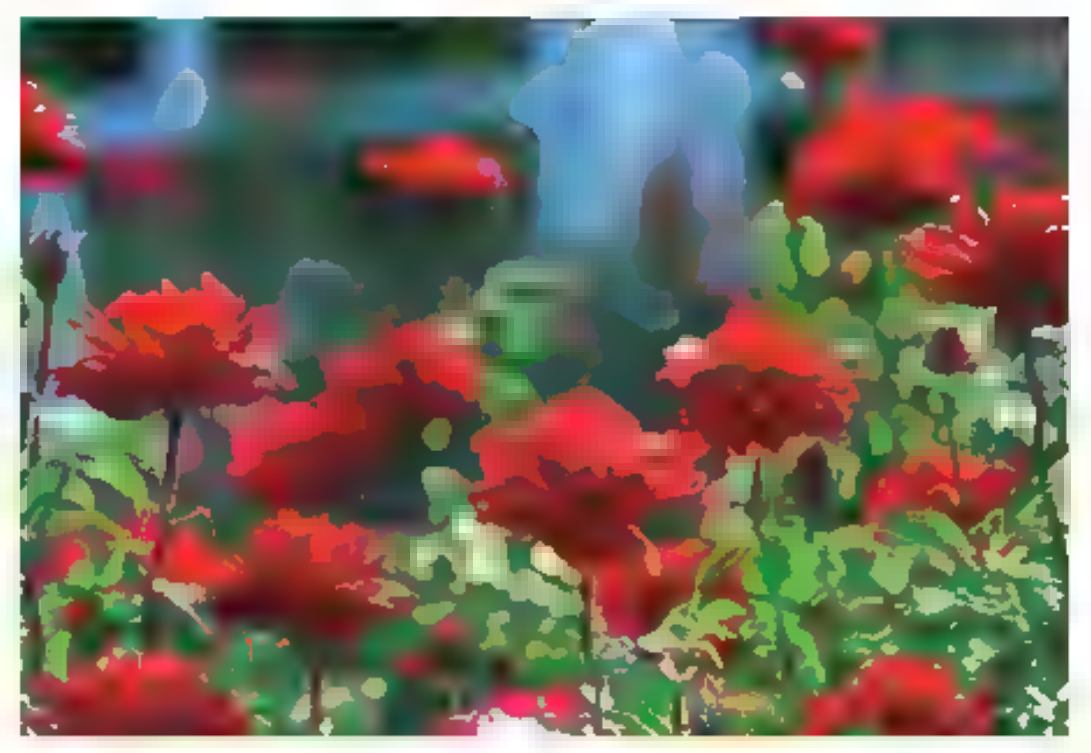
What's in bloom?

download the podcast at www.gardeninghelp.org

lily


chinese hibiscus

shasta daisy


rose

magnolia

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
whitaker MUSIC FESTIVAL			01 ■ Whitaker Music Festival. 7:30 p.m. CA	02 ■ Andrea Wulf book signing. 6 p.m. ST	03 ✿ Members Day: Sustainable Gardening. 2 p.m. ST	04 ■ St. Louis Horticultural Society sale. RVC. ■ St. Louis Hosta Society show and sale. RVC. ■ Children's story time. 10 a.m. GGS ■ Frank Schaper book signing. 11 a.m. GGS
05 ■ Summer Brunch. 10 a.m. $ SP. ■ Your Backyard Chorus. 1 p.m. $☎ BH ■ Illinois Appreciation Week	06 ✿ Members' Event: Rose Evening. 6 p.m. ■ Illinois Appreciation Week	07 ■ Illinois Appreciation Week	08 ■ Whitaker Music Festival. 7:30 p.m. CA. ■ Illinois Appreciation Week	09 ■ Native Plant School: Native Water Gardens and Bird Bubbler Construction. 1 p.m. $☎ SNR ■ Illinois Appreciation Week	10 ■ Illinois Appreciation Week	11 ■ St. Louis Carnivorous Plant Society show and sale. RVC. ■ Metropolitan St. Louis African Violet Council show and sale. RVC. ■ First-Time Fishing for Kids. 9 a.m. $☎ SNR ■ Illinois Appreciation Week
12 ■ Summer Brunch. 10 a.m. $ SP ✿ St. Louis Garden Tour 2011. 10 a.m. $☎ RVC ■ Metropolitan St. Louis African Violet Council show and sale. RVC. ■ Camp Bugaloo: Bugs. 1:30 p.m. $☎ BH	13 ■ Shaw Family Adventures: Creek Stomp. 9:30 a.m. $☎ SNR	14 FLAG DAY ✿ Young Friends Climatron & Cocktails. 5:30 p.m. ■ Backyard Bug Adventure. 10 a.m. $☎ BH	15 ■ Whitaker Music Festival. 7:30 p.m. CA ■ Camp Bugaloo: Bugs. 9:30 a.m. $☎ BH ■ Shaw Family Adventures: Tree Cycle. 9:30 a.m. $☎ SNR	16	17 ✿ Midsummer Night's Dance. 6 p.m. $☎ SP ■ Shaw Family Adventures: Nature Explore Classroom™ Project Day. 9:30 a.m. $☎ SNR	18 ■ Great Green Adventures: 10:30 a.m. and 1:30 p.m. $ CHD ■ Mid America Regional Lily Society show. RVC ■ Discover Nature—Families: Explore the Wetlands. 9:30 a.m. SNR ■ Sculpture trunk show. GGS
19 FATHER'S DAY ■ Mid America Regional Lily Society show. RVC ■ Summer Brunch. 10 a.m. $ SP ■ National Pollinator Week, through June 25. ■ Father's Day Pollinator-Palooza. 11 a.m. BH	20 ■ Shaw Family Adventures: Wolf Run Lake Exploration. 9:30 a.m. $☎ SNR	21 ✿ Members' Event: Musical Evening. 6 p.m. SP	22 ■ Whitaker Music Festival. 7:30 p.m. CA ■ Introduction to Beekeeping. 5:30 p.m. $☎ BH ■ Shaw Family Adventures: Without Batteries. 9:30 a.m. $☎ SNR	23	24 ■ Shaw Family Adventures: Let's Go Green! 9:30 a.m. $☎ SNR	25 ■ Daylily Club sale. RVC ■ Honey tasting. 11 a.m. GGS ■ Isabees Native Bee House trunk show. GGS ■ Nighttime Insect Safari. 8:30 p.m. $☎ SNR ■ Wildflower Identification and Ecology. 9:30 a.m. $☎ SNR
26 ■ Isabees Native Bee House trunk show. GGS ■ Summer Brunch. 10 a.m. $ SP	27 ■ Shaw Family Adventures: Fairy Houses. 9:30 a.m. $☎SNR	28	29 ■ Whitaker Music Festival. 7:30 p.m. CA ■ Shaw Family Adventures: Missouri Critters at the Shaw Nature Reserve. 9:30 a.m. $☎ SNR	30 ■ Nigel Mooney Concert/ Wine Tasting. 6 p.m. $☎ RVC	EXTREME Tree houses April 30 to August 21	Extreme Tree Houses will solicit smiles, spark curiosity, spur discussion, and inspire the inner child in all of us. *Supported by the U.S. Green Building Council–Missouri Gateway Chapter*

photos by Glenn Kopp, Josh Monken, Thomas Pope, Charles Schmidt, and courtesy www.mobot.org/gardeninghelp/plantfinder

July 2011

average temperature: low 70.6°, high 89.8°
average precipitation: 3.9 in.

What's in bloom?

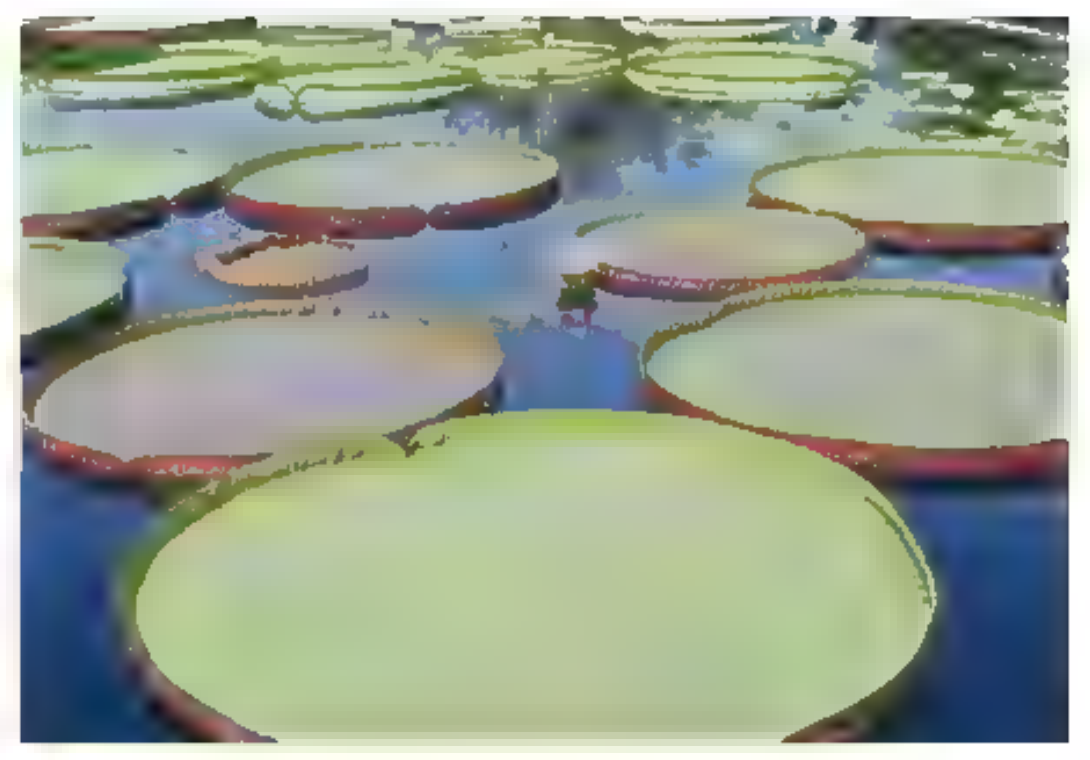
download the podcast at www.gardeninghelp.org

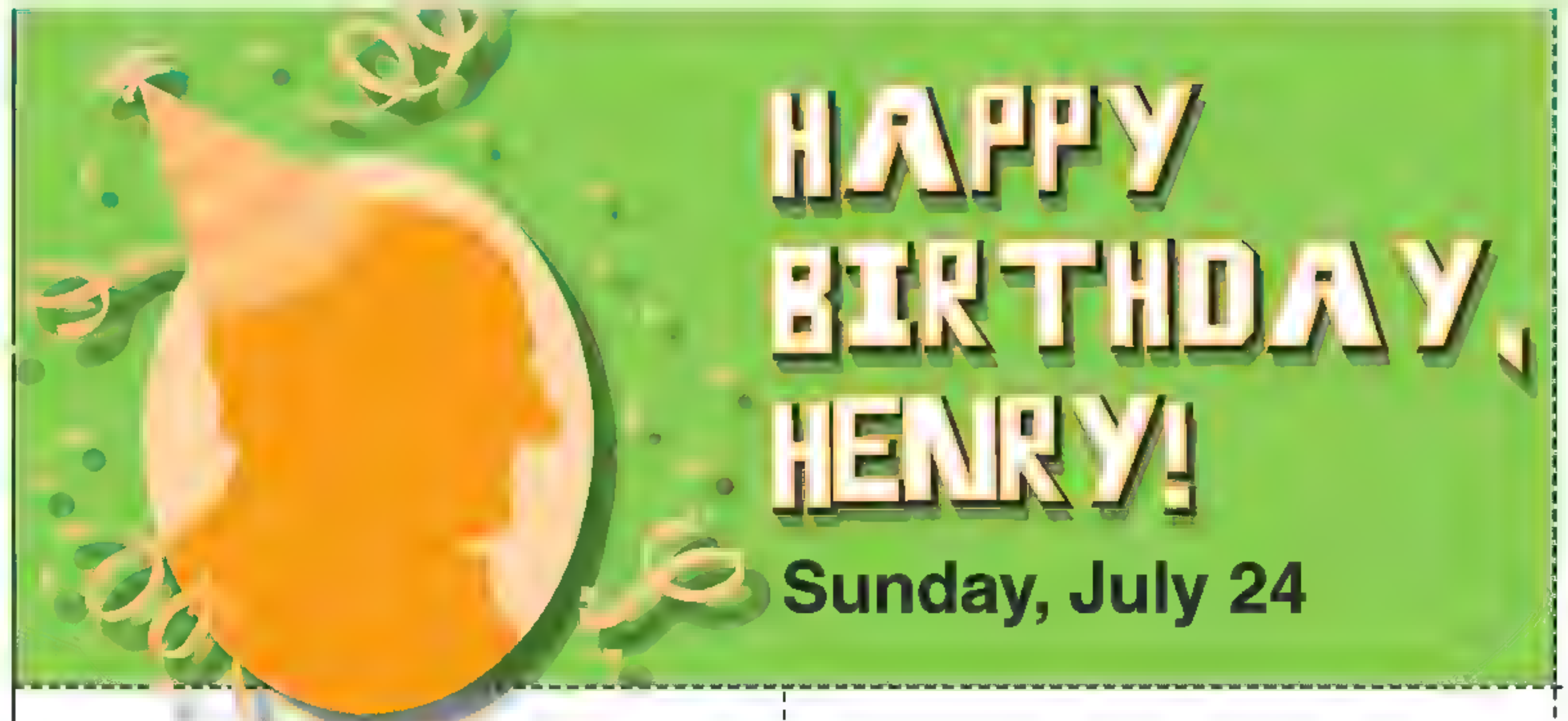
butterfly bush

sacred lotus

daylily

coneflower


Victoria lily

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			Henry Shaw Cactus Society Show & Sale July 23–30		01 Shaw Family Adventures: Creek Stomp. 9:30 a.m. $☎ SNR Seamus O'Brien lecture. 11 a.m. ST	02 Children's story time. 10 a.m. GGS
03 Summer Brunch. 10 a.m. $ SP	04 INDEPENDENCE DAY	05	06 Whitaker Music Festival. 7:30 p.m. CA	07	08 ✿ Members' Family Picnic. 6 p.m. ☎ CA	09 Insects of the Night. 8:30 p.m. $☎ BH
10 Summer Brunch. 10 a.m. $ SP Camp Bugaloo: Blossoms. 1:30 p.m. $☎ BH	11	12	13 Whitaker Music Festival. 7:30 p.m. CA Camp Bugaloo: Blossoms. 9:30 a.m. $☎ BH	14 Native Plant School: Native Plants that Deer Don't Like. 1 p.m. $☎ SNR	15 Around the World Wine Dinner. 6:30 p.m. $☎ Native Plant School: Native Plants that Deer Don't Like. 1 p.m. $☎ SNR Little Shop sidewalk sale. RVC	16 Great Green Adventures: Incredible Insects. 10:30 a.m. and 1:30 p.m. $ CHD Little Shop sidewalk sale. RVC
17 Summer Brunch. 10 a.m. $ SP Little Shop sidewalk sale. RVC	18	19 St. Louis Water Gardening Society auction. 6 p.m. RVC	20 Whitaker Music Festival. 7:30 p.m. CA Lee Sandlin book signing. 6 p.m. GGS	21	22	23 Henry Shaw Cactus Society show and sale. Noon. RVC
24 Henry Shaw's birthday Henry Shaw Cactus Society show and sale. RVC Summer Brunch. 10 a.m. $ SP 31 Summer Brunch. 10 a.m. $ SP Henry Shaw Cactus Society show and sale. RVC	25 Henry Shaw Cactus Society show and sale. RVC	26 Henry Shaw Cactus Society show and sale. RVC	27 Whitaker Music Festival. 7:30 p.m. CA Henry Shaw Cactus Society show and sale. RVC	28 Henry Shaw Cactus Society show and sale. RVC	29 Henry Shaw Cactus Society show and sale. RVC	30 Henry Shaw Cactus Society show and sale. RVC Bug Hunt. 11 a.m. BH Wildflower Identification and Ecology. 9:30 a.m. $☎ SNR

photos by John Smelser, Chris Starbuck, Laila Wessel and courtesy www.mobot.org/gardeninghelp/plantfinder

August
2011

average temperature: low 68.6°, high 87.9°
average precipitation: 2.98 in.

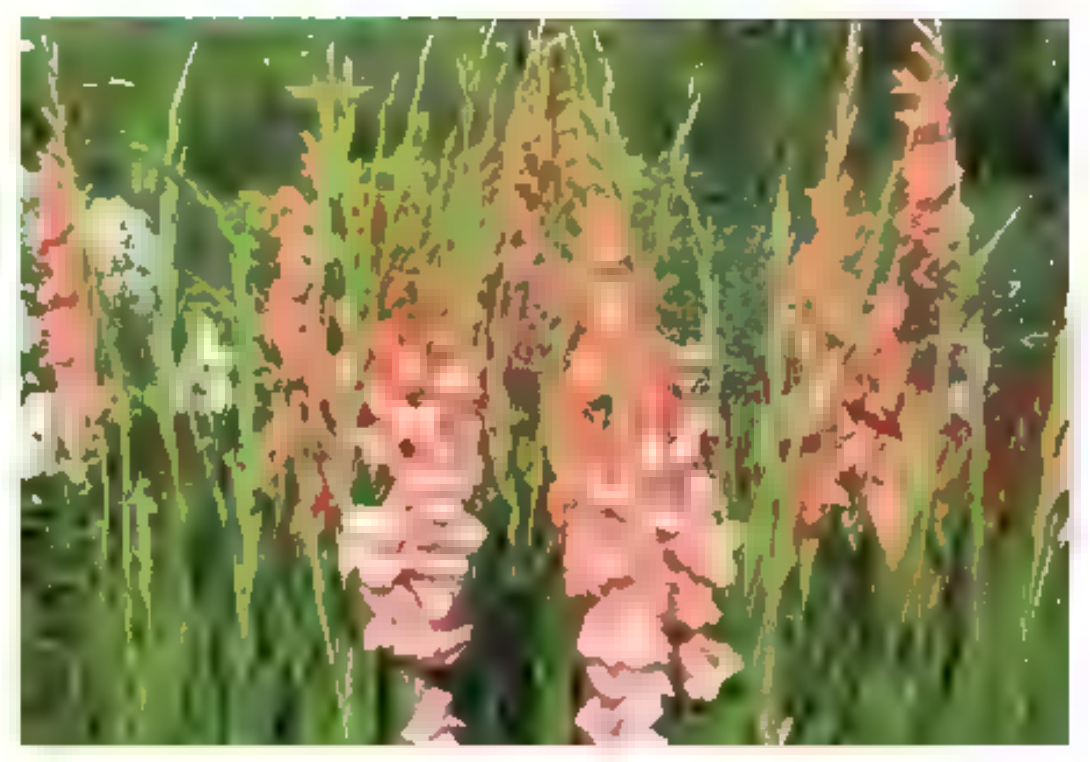
What’s in bloom?

download the podcast at www.gardeninghelp.org

water lily

canna

petunia


gladiolus

black-eyed Susan

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
the great ST. LOUIS Tree hunt **through September 30** *Presented by Gamma Tree Experts* Download a brochure at www.mobot.org/treemendous	01 RAMADAN BEGINS ■ Online class registration opens.	02	03 ■ Whitaker Music Festival. 7:30 p.m. CA	04	05	06 ■ Missouri Botanical Garden Daylily Association sale. RVC ■ Children’s story time. 10 a.m. GGS
07 ■ Summer Brunch. 10 a.m. $ SP	08	09	10	11 ■ Native Plant School: Summer Native Perennials and Grasses for Landscaping. 1 p.m. $ (phone) SNR	12 ■ Native Plant School: Summer Native Perennials and Grasses for Landscaping. 1 p.m. $☎ SNR ■ Discover Nature—Families Overnight: Last Days of Summer. 7 p.m. $☎ SNR	13 ✿ New Member Orientation. Noon. ST ■ Greater St. Louis Iris Society sale. RVC ■ BUZZ: Rotting Logs. 11 a.m. BH
14 ■ Corporate Partners Day ■ Orchid Society of Greater St. Louis auction. Noon. RVC ■ Greater St. Louis Iris Society sale. RVC ■ Summer Brunch. 10 a.m. $ SP	15	16 ✿ Members’ Day: Japanese Garden Walking Tour. 10 a.m. JG	17	18	19 ■ Around the World Wine Dinner. 6:30 p.m. $☎	20 ■ Great Green Adventures: 10:30 a.m. and 1:30 p.m. $ CHD
21 ■ Summer Brunch. 10 a.m. $ SP ■ Greater St. Louis Iris Society auction. 1 p.m. RVC ■ Lost Ladybugs. 9:30 a.m., 11 a.m. $☎ BH ■ Mushrooms: From Backyard to Table. 1 p.m. $☎ SNR	22	23	24	25	26	27 ■ Greater St. Louis Daylily Society sale. RVC ■ Wildflower Identification and Ecology. 9:30 a.m. $☎ SNR
28 ■ Summer Brunch. 10 a.m. $ SP ■ Greater St. Louis Daylily Society sale. RVC	29	30	31 EID-AL-FITR			

www.plasticpot
recycling.org

KEY *(All events take place at the Garden unless otherwise noted.)*

BH	Butterfly House
CA	Cohen Amphitheater
CBEC	Commerce Bank Center for Science Education
CHD	Children’s Garden
CL	Climatron lawn
GGS	Garden Gate Shop
JE	Jordan Education Wing in the Visitor Center
KC	Kemper Center for Home Gardening
LS	Little Shop Around The Corner
MC	Monsanto Center
MH	Monsanto Hall in Ridgway Visitor Center
RVC	Ridgway Visitor Center
SNR	Shaw Nature Reserve
SP	Spink Pavilion
ST	Shoenberg Theater in Ridgway Visitor Center
🌿	Sassafras
✿	Members-only event
☎	Reservations required
$	Fee required

photos by Glenn Kopp, Thomas Pope, Chris Starbuck, and courtesy www.mobot.org/gardeninghelp/plantfinder

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166–0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

山車の会
JAC
JACL
日米協会
御諏訪太鼓

photo by Brent Johnston

SAVE THE DATE

Japanese Festival

Labor Day weekend, September 3–5

Celebrate the history, culture, and people of Japan at the Garden's annual festival, one of the largest and oldest of its kind in the United States. Avoid the lines and buy your tickets online at www.mobot.org/tickets.

Sponsorship support by Novus International, Inc.

MISSOURI
BOTANICAL
GARDEN

bulletin

Fall 2011 Vol. 99, No. 4 www.mobot.org

photo by Koraley Northen

President's Comment

As we near the end of the first year in the U.N. Decade of Biodiversity, much activity has already taken place in the initiative to halt plant loss. This past summer the Garden hosted representatives from around the world for the 2011 Conference on the Global Strategy for Plant Conservation (GSPC). The Strategy, first adopted in 2002 but updated in October 2010, outlines 16 targets for plant conservation to be achieved by 2020, with the ultimate goal of halting the loss of plant species worldwide.

The conference provided the opportunity for members of the plant conservation community to come together and share experiences and best practices as we take action to achieve the targets set forth in the strategy. Recommendations from the conference will go forward to the U.N. Convention on Biological Diversity to help guide priorities amongst the 194 countries that have adopted the Strategy.

The Garden has a critical role to play in guiding and supporting this international initiative. Indeed, all botanic gardens, combining their unique skills in research, horticulture, and policy, are strongly positioned to play a leadership role in the global implementation of the Strategy—and in making the connection with the public on these issues. In the 30 years I've been involved with the botanic garden community, the number of botanic gardens has more than doubled, from approximately 1,200 to over 2,500, attracting 250 million visitors annually.

As we continue to develop our collections at the Garden, we have the opportunity to target species that need to be cultivated for conservation purposes. In the Climatron®, for example, you'll find one of the most endangered trees in the world, *Dracaena umbraculifera* (see page 8). I believe we will be telling more such stories in the future.

This summer we also announced the Garden's signature exhibition for 2012. *Lantern Festival: Art by Day, Magic by Night* will light up the Garden with 26 larger-than-life installations made of silk and steel on site by master craftsmen from China, a part of the world that has been central to Garden research and conservation efforts for over 30 years (see page 5). With the completion of the *Flora of China* imminent, 2012 will truly be the Year of China at the Garden. There is much to look forward to!

Peter Wyse Jackson

Dr. Peter Wyse Jackson, *President*

> *To discover and share knowledge about plants and their environment in order to preserve and enrich life.*
>
> *– mission of the Missouri Botanical Garden*

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Francis Yueh

What's Inside…

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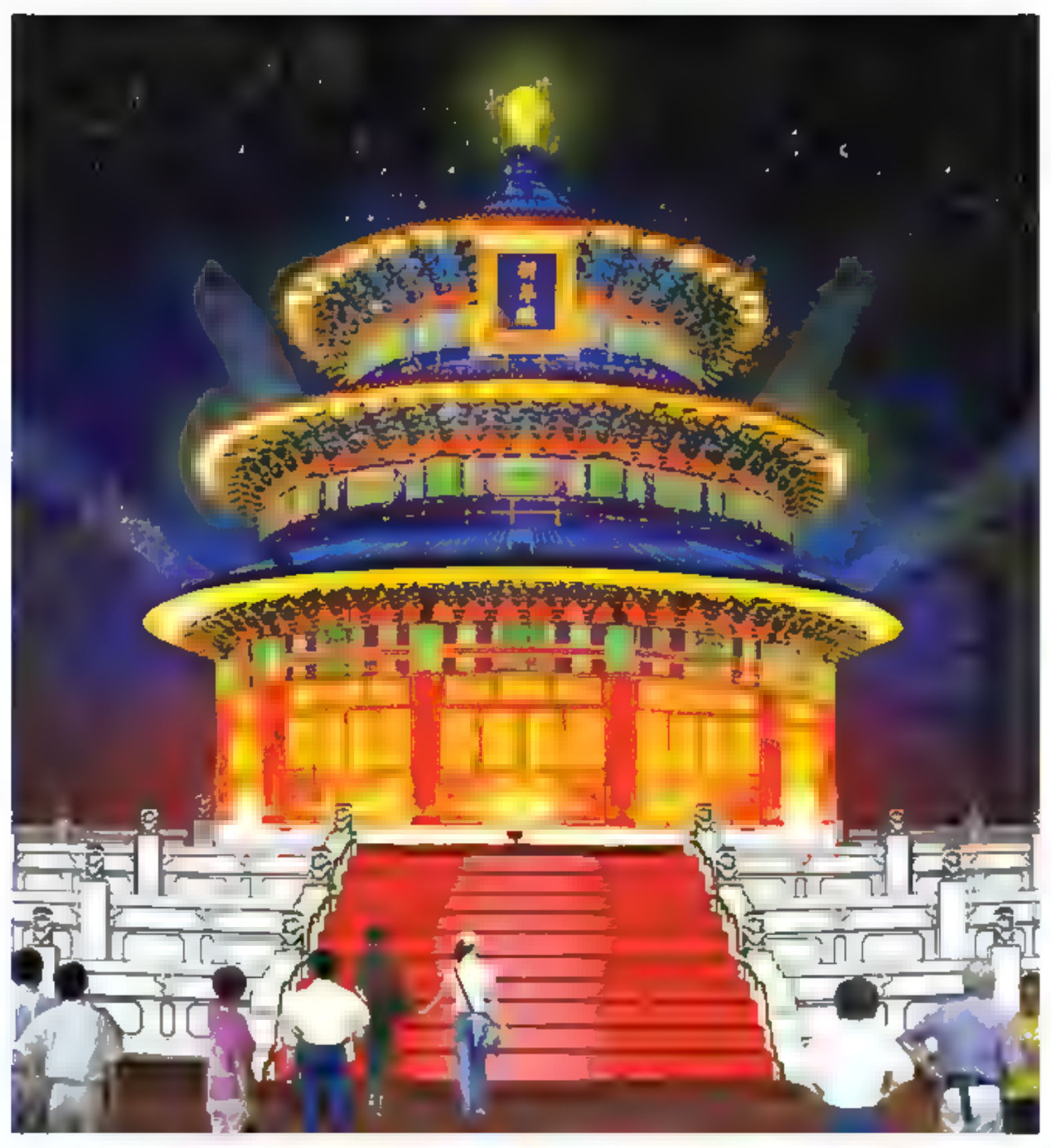
Calendar 21



5
Art by Day, Magic by Night

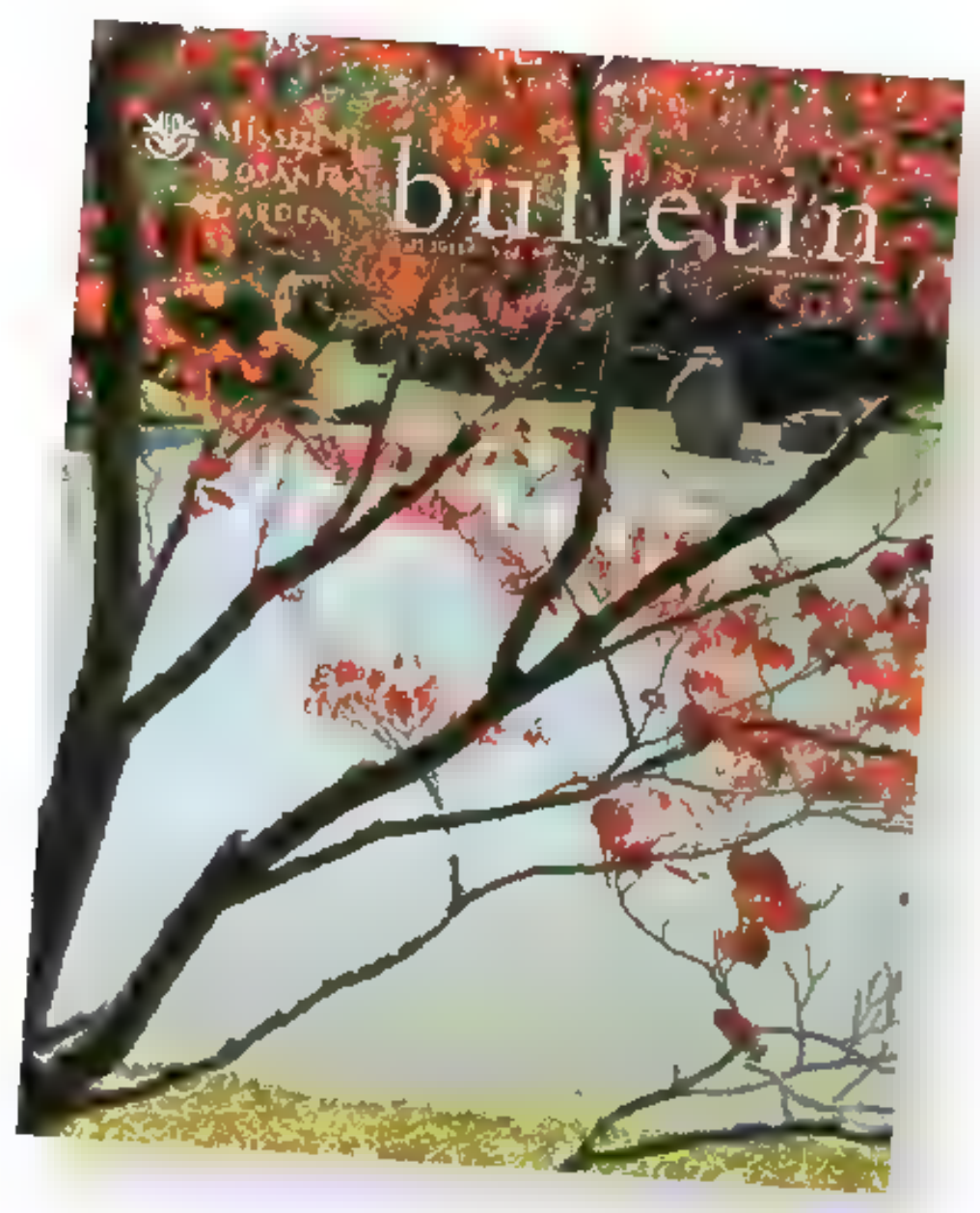
Lantern Festival to light up the Garden in 2012.

8
Rarest of the Rare

A tree extinct in the wild grows in the center of the Climatron.

10
Noble notables

Next time you visit the Garden, take time to notice the trees.



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On the Cover:

Fall foliage in the Japanese Garden. Photo by JJ Lane.

Credits

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Garden Hours

The Garden is open 9 a.m. to 5 p.m. every day except December 25.
Outdoor walking hours begin at 7 a.m. Wednesday and Saturday.

General Admission

$8 ($4 for residents of St. Louis City and County); children 12 and under are free. Garden members receive free admission (based on level).

Children's Garden: $5 for children; adults admitted free. ($3 for Garden members' children.) Members' children admitted free on Tuesdays. Open April through October.

Contact

Missouri Botanical Garden
4344 Shaw Blvd., St. Louis, MO 63110
(314) 577-5100 • www.mobot.org

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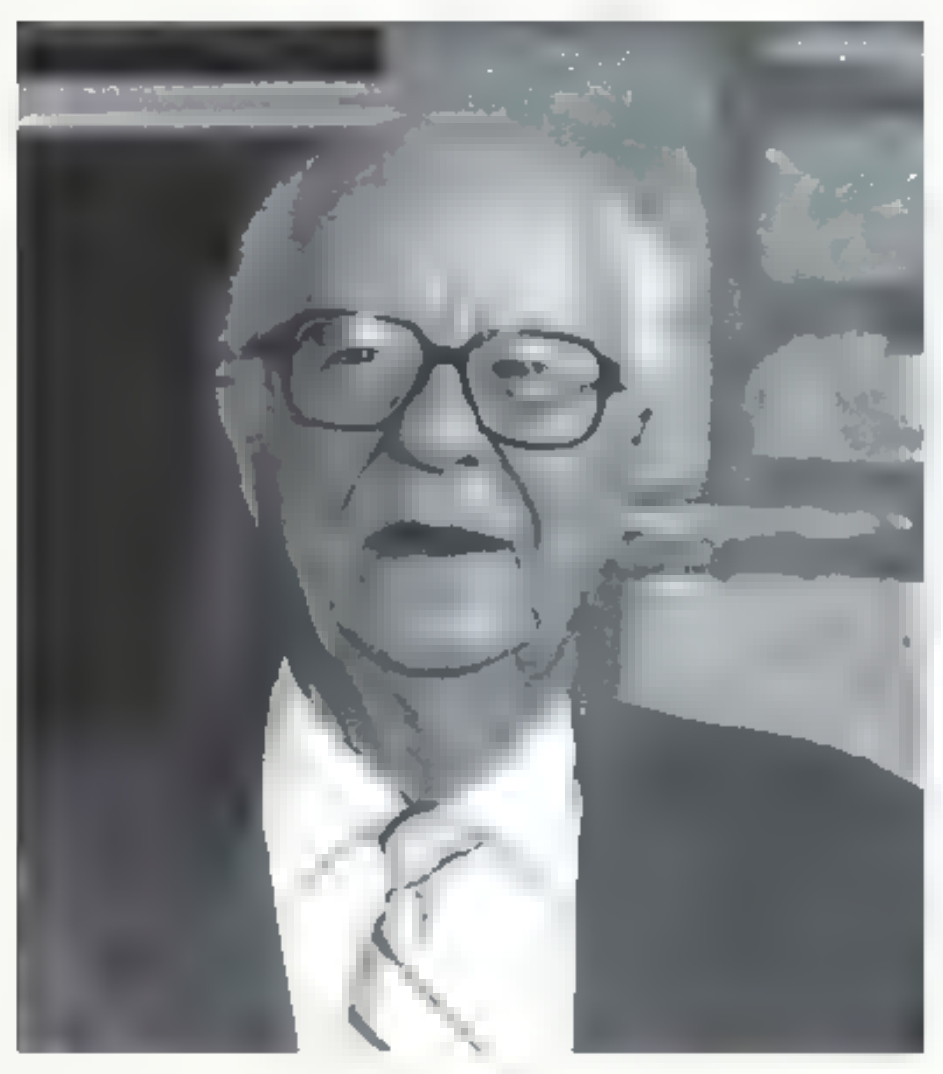
In Memoriam

Cherished Friends Depart

Four emeritus members of the Missouri Botanical Garden Board of Trustees died recently. Their affiliations with the Garden spanned from 37 to 44 years. Their leadership, service, and generosity forever changed the Garden.



William R. "Bill" Orthwein Jr.
1917–2011

William R. Orthwein Jr. leaves an extraordinary legacy in the St. Louis community and at the Garden.

He and his wife, Laura Rand Orthwein, contributed throughout their lives to organizations advancing the arts, wellness, cultural life, education, and services to those in need.

At the Garden, visitors enter the Orthwein Floral Display Hall to experience the festive Holiday Flower & Train Show and the stunning Orchid Show. The couple's generosity also is reflected in the Pollination Garden in the Children's Garden and at the Monsanto Center, which is the headquarters of the Garden's research program.

Mr. Orthwein joined the board in 1975 and served as first vice president in 1980. He also served in several key roles during his tenure, including representing the Garden to the community during three successful capital fund drives.

Mr. Orthwein was the retired president and chairman of McDonnell Douglas Automation Co., which he founded, and a director of McDonnell Douglas Corporation.

He and Mrs. Orthwein were named Outstanding Philanthropists in 2006 by the local chapter of the Association of Fundraising Professionals.

Mr. Orthwein died June 1, 2011. He was 94. Survivors include his wife, three daughters, seven grandchildren, and 16 great-grandchildren.

Louis S. "Lou" Sachs
1928–2011

Louis S. "Lou" Sachs has been aptly described as the visionary for modern Chesterfield, but his influence goes beyond any one community.

Mr. Sachs provided land for Chesterfield Mall, and his company, Sachs Properties, built the surrounding areas known as Chesterfield Village. Mr. Sachs also was passionate about and financially supportive of the arts. The Garden was one of many beneficiaries of his efforts to strengthen community life.

Mr. Sachs became a member of the Garden in 1967 and joined the Board of Trustees in 1980. He supported the Sophia M. Sachs Butterfly House in Chesterfield, which is named in honor of his stepmother, and shared his construction expertise as chairman of the Building and Grounds Committee.

Mr. Sachs and Sachs Electric contributed to projects such as construction of the Ridgway Visitor Center and the Climatron®.

Mr. Sachs died May 27, 2011. He was 83. He is survived by his wife, son, two daughters, brother, and eight grandchildren.

Edith "Edie" Spink
1921–2011

Edith "Edie" Spink was the longest-serving mayor in the history of Ladue and widow of C.C. Johnson Spink, fourth publisher of *The Sporting News*, which the Spink family owned.

Mr. and Mrs. Spink began their support of the Garden in 1969. In the 1980s, the couple made possible the renovation of the old Flora Gate on Tower Grove Avenue, which was the main entrance before Ridgway Visitor Center was built. Since 1989, the gate has been the Edith and Johnson Spink Pavilion; it is the site of some of the city's loveliest community and corporate events.

The couple also gave to the Garden a collection of Boehm porcelain birds and flowers, which are on display in Spink Gallery in Ridgway Visitor Center.

Mr. Spink was elected to the Board of Trustees in 1974 and served as chairman from 1981 to 1984. Mrs. Spink was elected an emeritus trustee in 1993.

Mrs. Spink served as mayor of Ladue from 1975 to 1995. She died June 21, 2011 at the age of 90.

Douglas B. MacCarthy 1932–2011

Douglas B. MacCarthy was an art collector and patron, financial planner, and gardening enthusiast. He was a member of the Missouri Botanical Garden from 1969 until his death, and he served on the Garden's Board of Trustees beginning in 1995.

Mr. MacCarthy was an architect and builder until he went blind in his early 30s. He became a financial planner in his second career and emerged as a leader in the arts community. He was a founder of the Contemporary Art Museum of St. Louis and the first president of the Missouri Citizens for the Arts. He also served on several arts boards.

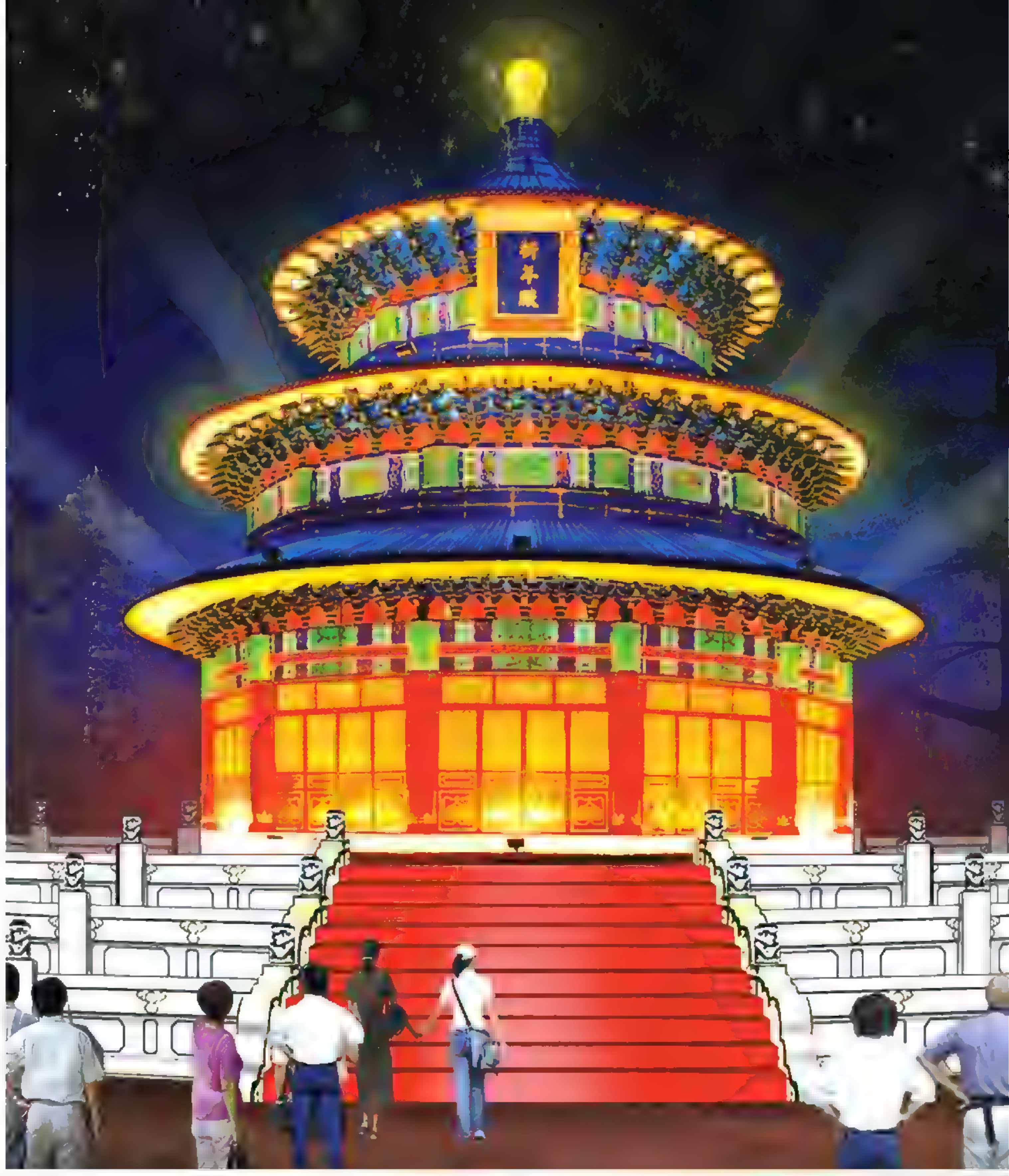
At the Garden, Mr. MacCarthy served in several committee positions on the board and was instrumental in planning the Blanke Boxwood Garden. He is the nephew of Ruth Palmer Blanke, for whom the Boxwood Garden is named.

The Smithsonian Institution named Mr. MacCarthy's personal garden in Ladue one of the 100 best in America in the last half of the 20th century.

Mr. MacCarthy died June 27, 2011 at the age of 78. He is survived by two goddaughters, a sister, and friends.

Lantern Festival to Light up the Garden

presented by EMERSON.



The Heavenly Temple set will occupy the Shapleigh Fountain in the Lehmann Rose Garden.

Next May, more than two dozen larger-than-life lighted works of art are expected to attract visitors from across the nation to the Missouri Botanical Garden for *Lantern Festival 2012: Art by Day, Magic by Night.* Emerson is the presenting sponsor for the festival.

The lantern installations—crafted from silk and steel using bold colors and lighting—will be created on site by artisans from Zigong Province in China, a region known as the lantern capital of the world. The lantern festival is the first of its kind and size in the United States and is rarely staged outside of Asia.

"All eyes are going to be on St. Louis in 2012," Kitty Ratcliffe, president of the St. Louis Convention and Visitors Commission, said at the press conference announcing the exhibit. In addition, the festival's expected high visitorship will also help support the region's 80,000 hospitality-sector jobs.

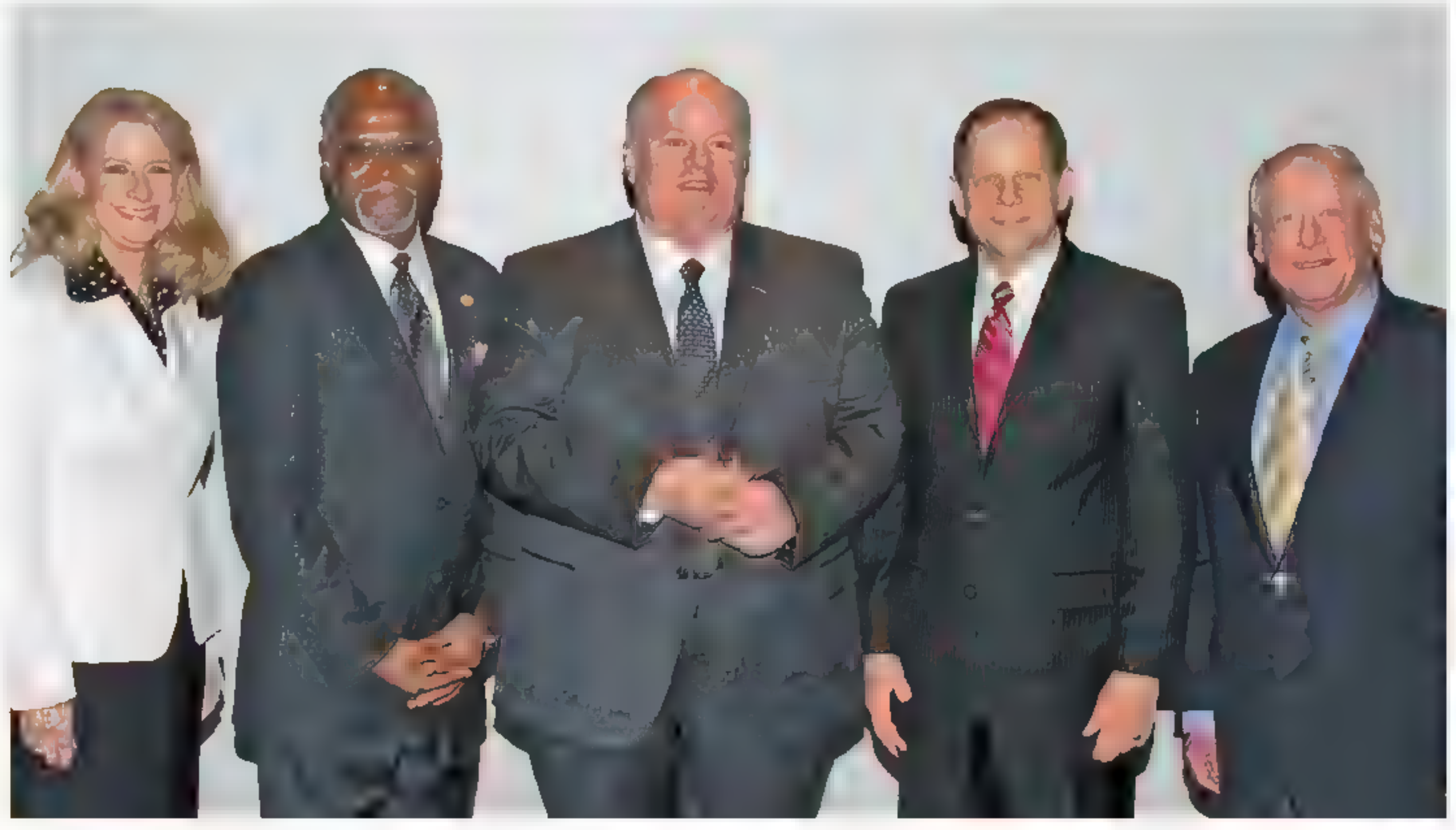


photo by David Lampe

Joining Dr. Peter Wyse Jackson (center) in making the announcement of the Lantern Festival were Kitty Ratcliffe, president of the Convention & Visitors Commission; Charlie Dooley, St. Louis County Executive; St. Louis Mayor Francis Slay; and Robert M. Cox, Jr., senior vice president–administration of Emerson.

St. Louis Mayor Francis Slay said the Lantern Festival is "truly an event the entire region should be proud of" and will reinforce St. Louis's status as a world-class arts and culture destination. St. Louis County Executive Charlie Dooley hailed it as "a unifying event in the St. Louis region" that would provide opportunities for visitors to expand their horizons and knowledge of other cultures.

China has long been a focus for the Garden, where its scientists have been collaborating since 1988 on the *Flora of China*, a comprehensive directory of the country's approximately 30,000 plant species. This important scientific record will be completed in late 2012/early 2013.

Lantern Festival will run from May 26 through August 19. There is no extra charge to view the lanterns by day. Admission to Lantern Festival nights, 6 to 10 p.m. Thursdays through Saturdays, will be $15 members, $22 nonmembers; $10 children ages 3 to 12, $5 members' children. Children 2 and under are free. For more information, visit www.mobot.org/lanternfestival.

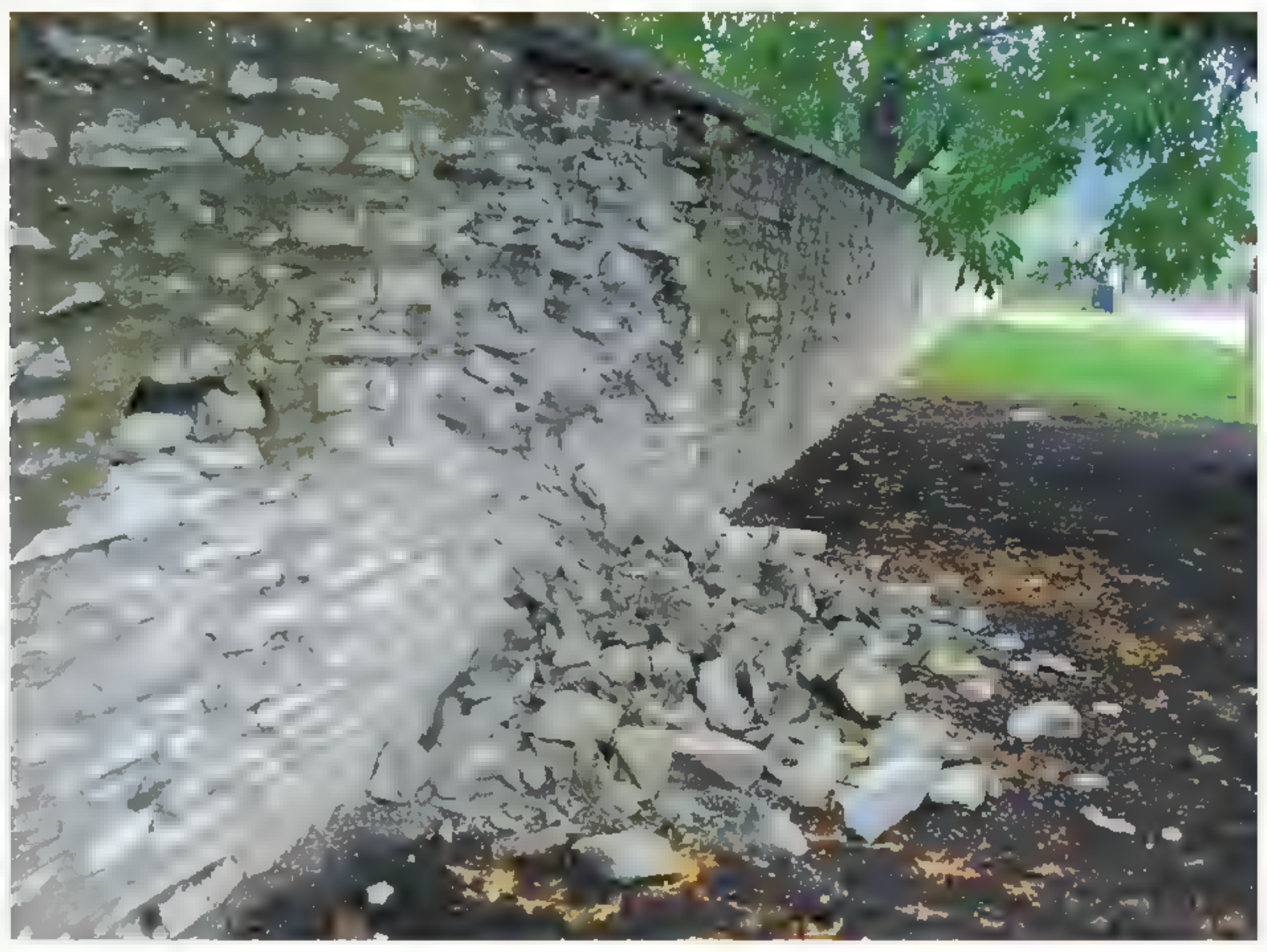


photo by Charles Zidar

The perimeter wall borders the east side of the Garden facing Tower Grove Avenue.

Grant to Fund Repairs to Garden Wall

The Missouri Botanical Garden has received a $529,623 grant from the Department of Interior, National Park Service through the Save America's Treasures (SAT) grant program, for the restoration of a portion of the Garden's historic stone wall. The Garden must match grant funds dollar for dollar.

The stone and ironwork perimeter wall, completed in 1856, will be restored as closely as possible to its original condition. Support from the Save America's Treasures program will help fund the initial phase of the project, involving work on the oldest and most damaged sections of the wall, which are in active failure and in urgent need of restoration to address safety and security.

Planning is underway with work to begin late in 2011.

The Save America's Treasures program helps protect the nation's endangered and irreplaceable cultural heritage. Save America's Treasures is a public-private partnership administered by the National Park Service and the President's Committee on the Arts and the Humanities in cooperation with the National Endowment for the Arts, the National Endowment for the Humanities, Institute of Museum and Library Services and SAT's private partner, Save America's Treasures at the National Trust for Historic Preservation.

photo by Jonathan Knobelock

From left: Laurian McGrath, Paul Feldker, Len Jacobs, LaVerne Jaudes, Gary Keller, Joyce Driemeyer, Nancy Williams, Chuck Wilson, Carol Boeckmann, Henry Boeckmann, Stephanie Miller, Charlie Wilson, Richard Pandorf, Dr. Peter Wyse Jackson, Pauline Ashton, Ray Potter, staff member Mary Voges, Larry Berglund, staff member Bob Coulter, Marc Flanders, and staff member Danelle Haake. Not pictured: Paul Omans.

Volunteer Appreciation Evening

On June 28 the Garden saluted its volunteers during our annual Volunteer Appreciation Evening. Dr. Peter Wyse Jackson presented special awards to the following outstanding individuals and groups:

- Len Jacobs, *Commitment Award*
- LaVerne Jaudes, *Commitment Award*
- Nancy Williams, *Dedication Award*
- Laurian McGrath, *Extra Service Hours Award*
- Paul Feldker, *Green Award*
- Paul Omans, *Rookie Volunteer of the Year Award*
- Gary Keller, *Special Achievement Award*
- Friday Horticulture Volunteers at Litzsinger Road Ecology Center—*Group Excellence Award:* Pauline Ashton, Larry Berglund, Carol Boeckmann, Henry Boeckmann, Marc Flanders, Stephanie Miller, Richard Pandorf, Ray Potter, Charlie Wilson, Chuck Wilson
- Joyce Driemeyer, *Lifetime Achievement Award*

Volunteer Honored

Garden volunteer Ann Case was recently honored by Bulb Collections Specialist Jason Delaney with a flower named in her honor, *Hemerocallis* 'Ann Case,' or the Ann Case Daylily. Delaney formally presented the flower named after Case at a Members' Board meeting in June. Case has volunteered at the Garden since 1977. She serves on the Members Board and is also a St. Louis Herb Society member, master gardener, Garden guide, volunteer at the Plant Doctor desk, and bloom recorder (or someone who records the dates on which plants bloom). It was her work as a recorder that led to the daylily being named in her honor.

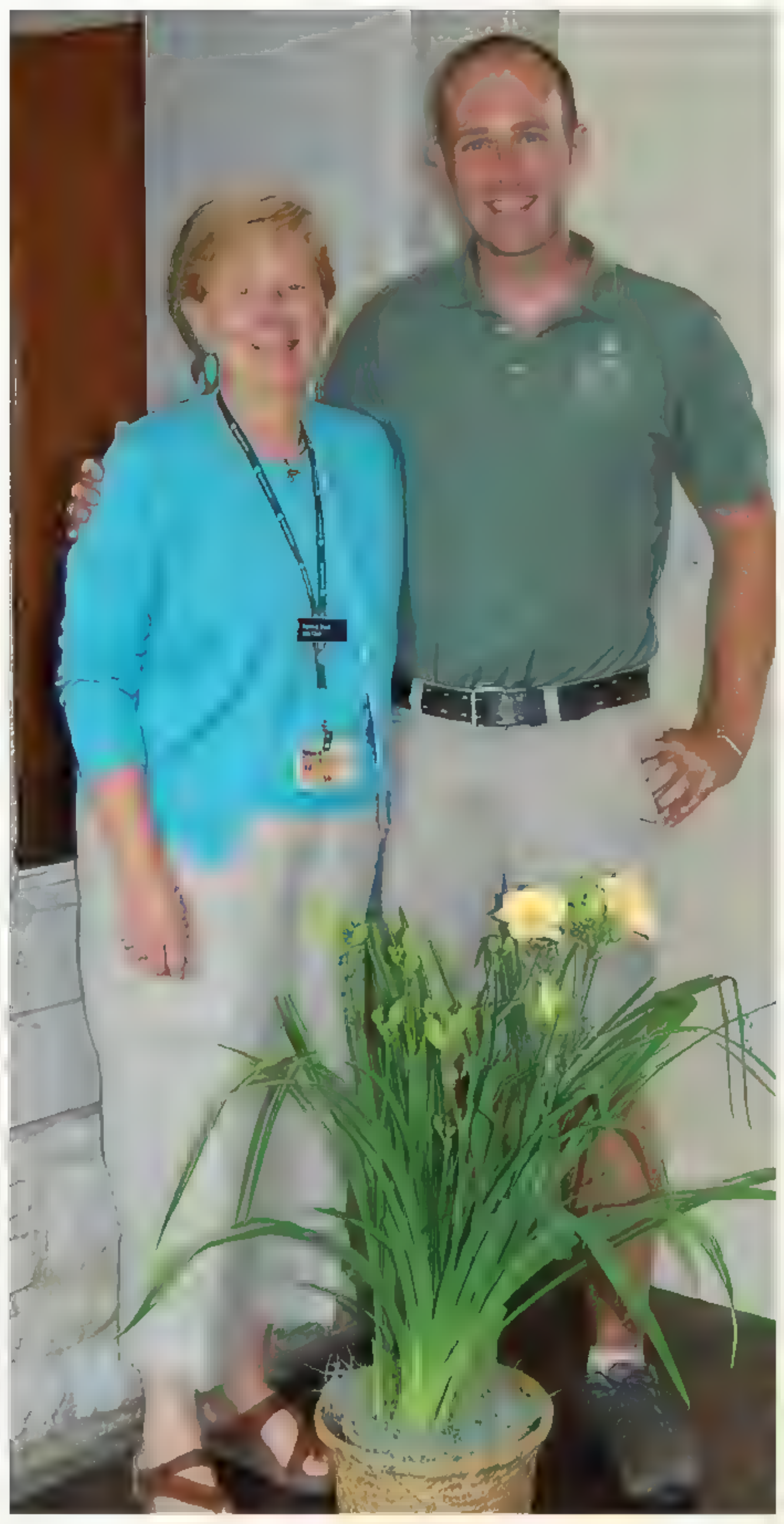


photo by Andrea Nickrent

10 YEARS
20 YEARS
30 YEARS

photos by David Lampe

10 years—front row: Anita Joggerst, Nancy Williams, Judi Yemm, Margaret Nathe, Karlene Feldker, Joy Stinger, Dolores McGuire, Marilyn Ainsworth, Marge Bornhauser, Judy Schaljo, Dorothy Harris. Second row: Bob Irwin, Penny Steffen, Jean Kelly, Jim Massey, Dr. Wyse Jackson, Ron Schlapprizzi, David Kennedy, Ben Kennedy, Leroy Ortmeyer, Dan Gravens. Not pictured: Ronda Anson, Anthony Bassett, Diane Faupel, Marie Fisher, Dot Gormley, Don McQueen, Gale Murphy, Kay Pelikan, Marge Petruska, Suzanne Ramsey-Haubein, Jodi Sudin, Bob Weinman, Bill Ziegenbein. 20 years—Barbara Huning, Jackie Mitchell, Lou Stark, Dr. Wyse Jackson, Jack Tucker, Joan Dellbringge, Phyllis Pieper. Not pictured: Nancy Kirchhoff. 30 years—Mary Ann Pelot, Doris Johnston, Charmaine Hutchings, Dr. Peter Wyse Jackson, Charlotte Baeyen, Albert Baeyen, Audrey Mathews. Not pictured: Ruth Jonas. 40 years: Dr. Wyse Jackson and Barbara O'Brien.

Volunteer Service Recognition

On Tuesday, June 7, the Garden celebrated the commitment of its 1,816 volunteers at the annual volunteer service recognition luncheon. Awards were given for commitments of 10, 20, 30, and—in one case—40 years! Our volunteers last year devoted over 151,000 hours to the Garden—the equivalent of 78 full-time staff. Without them, the Garden would not be able to operate at its current level of excellence.

photo by David Lampe

Four decades of service

Barbara O'Brien was first introduced to nature as a child in Shannon County, Mo., by her grandfather. This developed into a lifelong passion for nature, the environment, and gardening, which are evidenced by her long-term membership in the Missouri Mycological Society and her terms as president of the St. Louis Herb Society, the Boxwood Society, and the Rowena Clark Garden Club. As president of the St. Louis Herb Society from 1992–1994, O'Brien oversaw the production of the hugely successful *St. Louis Herb Society Cookbook*. During her 40 years of volunteer service for the Garden, she has chaired virtually every committee of the St. Louis Herb Society, several more than once. She most recently co-chaired the annual herb sale.

Garden Inspires Students to Celebrate Power of Plants

More than 900 students participated in the Garden's 2010–2011 Power of Plants contest, a program targeting K–12 students from across the region to "dig deep" into a specific plant, research its traits and uses with their peers, and share what they learn with others. The 2010–2011 Power of Plants program was made possible by the generous support of The Monsanto Fund.

2010–2011 winners are:

Early elementary (kindergarten through second grade): homeschoolers Aria and Jozlin Schmidt of south St. Louis, physical category; Adam Koetting, Henry McIntyre, and Grace Embry of Our Lady of Providence School in Sappington, digital category.

Upper elementary (third through fifth grades): Ross Stauder and Evan Coleman of Tillman Elementary in Kirkwood, physical; Mitchell Skaggs and Zachary Clark of Drummond PE65 North in St. Ann, digital.

Middle school (sixth through eighth grades): homeschoolers Gianna Sparks, Lauren Ashley Sparks, Regina Doty and Reuben Doty of Creve Coeur, physical; Laura Maniet, Isabel Mosley, Klarissa Sheffield, Greg Cordover and Cole Edelstein of Parkway Central Middle School in Chesterfield, digital.

High school (ninth through 12th grades): Leah Faith McGee and Chris Bolton of Hancock Place High School in Lemay, physical; Caitlin Quirin, Abby Reding, Becca Wilkes and Anna Reichert of St. Joseph Academy in Frontenac, digital.

The 2011–2012 contest is under way, with an entry deadline of January 31, 2012. For more information, visit www.mobot.org/power.

INTENSIVE CARE FOR ENDANGERED PLANTS

In the Climatron there's a tree called *Dracaena umbraculifera*. Sometimes known as the umbrella dracaena from the Dracaenaceae (dragon-tree) family, it is native to the island of Mauritius in the Indian Ocean and rises 10 meters in height.

You won't find any of these in Mauritius, though. It's extinct in the wild, according to the International Union for Conservation of Nature's (IUCN) Red List of Threatened Species, which details the plants and animals in danger of disappearing from the planet.

In fact, *Dracaena umbraculifera* has been extinct in the wild for a century. The only reason the tree has survived is because a small number of gardens have kept it in cultivation, said Missouri Botanical Garden President Dr. Peter Wyse Jackson.

"There have been sketchy records of this plant being grown in a number of collections," he said. "There are maybe 15 botanic gardens that state they have it in cultivation. However, when I went into the Climatron, there in the center was probably the finest *Dracaena umbraculifera* left in the world."

Dr. Wyse Jackson has been interested in conservation of plants from Mauritius for some time. He first traveled to the island in 1985, when he led an expedition to help conserve a number of endangered species there.

"There are several hundred species there that are known through tiny populations," he said. "The native vegetation has been devastated through clearance for sugar cane crops and also the loss of pollinators, which has meant that many of the species don't regenerate properly. There are also invasive species problems: privet, guava, and other species that are choking forests."

This illustration of the Dracaena umbraculifera *flower comes from the book* Plantarum rariorum horti caesarei Schoenbrunnensis descriptiones et icones *by Nikolaus Joseph Freiherr von Jacquin, published in 1797 (www.biodiversitylibrary.org/page/271984). The* Dracaena *in the Climatron has never flowered.*

photo by Karen Hill

Dracaena umbraculifera in the Climatron. There are only 16 specimens of this species in the world.

Once he realized one of the rarest trees in the world was living in the Climatron, Dr. Wyse Jackson proposed a project through the Students in the Garden program, which provides undergraduate students at Washington University in St. Louis the opportunity to collaborate with Garden scientists on research projects.

Under the supervision of Garden Curator Peter Hoch, undergraduate student Qian Cao spent four and a half months this spring tracking down information on *Dracaena umbraculifera*. The first written description of the species appeared in 1797 of a specimen in a Vienna botanical garden, and was accompanied by an illustration of the tree's inflorescence (or flower).

Somewhere along the line, Hoch said, the species was introduced into European botanical gardens, but it's difficult to say when. It appears that the tree does not flower very often, and likely the description was written only because the specimen came into flower, he said.

Likewise, the Garden's specimen is something of a mystery. Just finding out when the tree was acquired has proved to be a challenge, Hoch said. Records kept by the Garden's Horticulture Division mentioned the tree in 1976 and pointed to an earlier record from 1906. There, however, the trail dried up, indicating information on how and when the tree was acquired—a collection in the wild, perhaps, or a donation from another botanical garden or institution—had been lost.

"We just don't know the source," Hoch said.

As part of the project, Cao tracked down the other institutions worldwide that have *Dracaena umbraculifera* in their collections—16 in all—and set up a network of communication among them.

LEARN MORE

Join Andrew Wyatt, the Garden's Vice President of Horticulture, for a Rare Plants and Living Collections Tour on Wednesday, October 12 at 10 a.m. He'll cover behind-the-scenes functions rarely seen by visitors as well as important specimens within the Garden. $19 members, $23 nonmembers. For information and to sign up, visit www.mobot.org/classes.

Hoch said they have requested leaf material as well as voucher specimens from each institution, as well as made vouchers and DNA collections of the Garden's *Dracaena umbraculifera* (along with the other five species from the genus in the Garden's collection). The voucher allows scientists to verify that they're dealing with the same species. The leaf material will give them what they need to start running genetic tests and determine if the 16 known specimens represent unique genetic individuals or are clones, in which case getting them to reproduce through pollination would be nearly impossible.

If they represent genetic diversity and one of the individuals flowers, Hoch said, the institutions could exchange pollen via express mail and attempt to cross-pollinate them.

"There's still a lot of work to do," Hoch said.

The ultimate goal would be a reintroduction of the species in the wild.

"This is a useful flagship for what we're doing in conservation," Dr. Wyse Jackson said, "and the story for each endangered species is unique. Over the years, we will be telling more of these stories."

Members' Day:

Botanical Gardens and Plant Conservation

Tuesday, September 20, 11 a.m., Shoenberg Theater

Join Dr. Peter Wyse Jackson for a members-only presentation on how botanical gardens are leading the effort to conserve plant biodiversity around the world.

Seeing the forest for the trees

photo by Mary Lou Olson

Imagine standing in a tall-grass prairie, the hills gently rolling around you all the way to the horizon. Over 150 years ago, that's exactly what you would have seen if you'd visited the future home of the Missouri Botanical Garden. When Garden founder Henry Shaw first visited this area, there was hardly a tree in sight.

The landscape has changed considerably since then.

Trees provide more than just a backdrop for the beautiful flowering plants at the Garden. In the spring, cherries, magnolias, flowering crabs, and plums put on a floral display of their own; their shade is inviting in the peak heat of summer; and fall color rivals the most vibrant spring blooms. Even in winter, when the rest of the garden hibernates, trees can still catch the eye with silhouette, texture, and shape.

Though by no means an exhaustive list, here is a selection of trees to see at the Garden.

DON'T MISS:

Members' Day: Walking Tour of Trees

Thursday, October 20, 11 a.m., Shoenberg Theater

Join Garden expert Ben Chu for a walking tour of the Garden's most notable trees. Space is limited. Advance reservations required, (314) 577-9570.

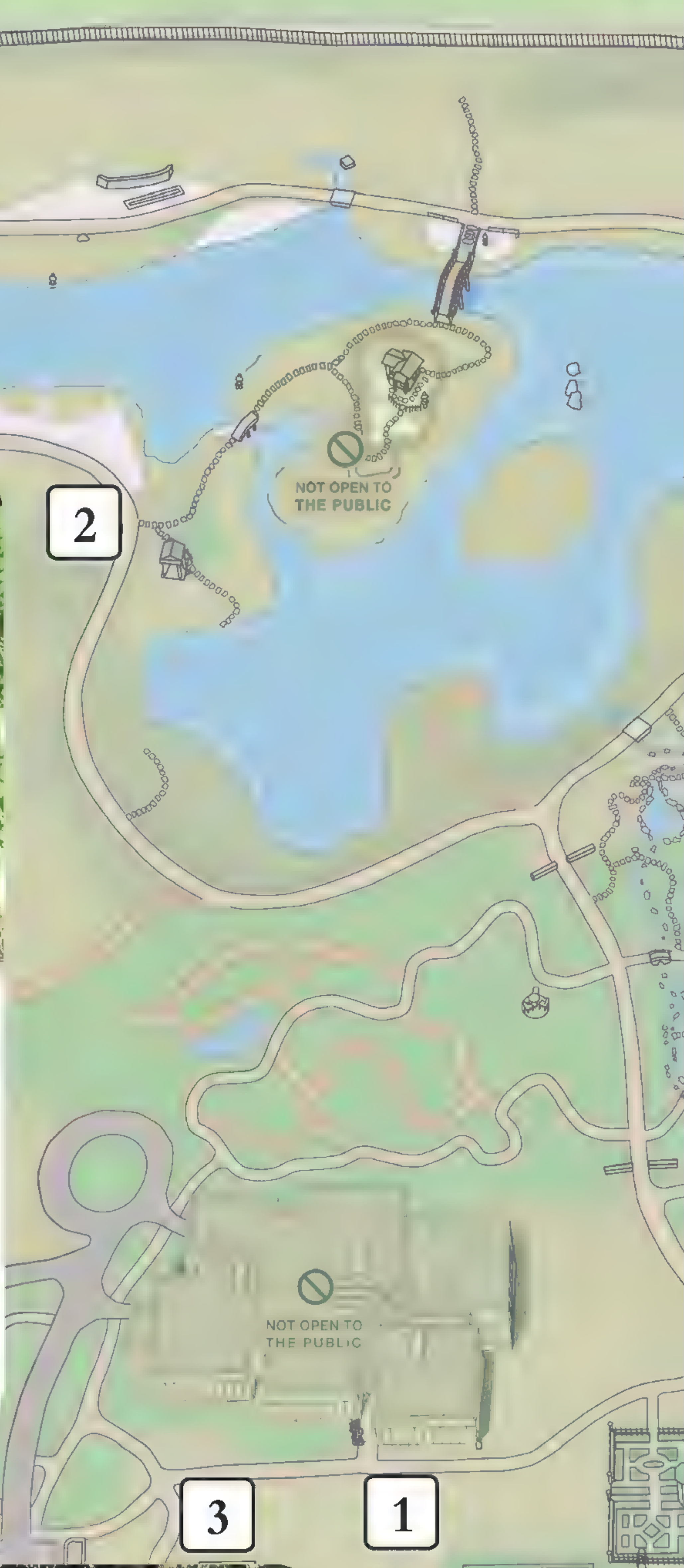


photo by Beth Haines

1 **Dawn redwood** (*Metasequoia glyptostroboides*)—Related to the bald cypress, this tree was known only through fossils, and presumed to be extinct—until a Chinese forester discovered one in 1941 and it was determined to be the same tree as that found in fossils.

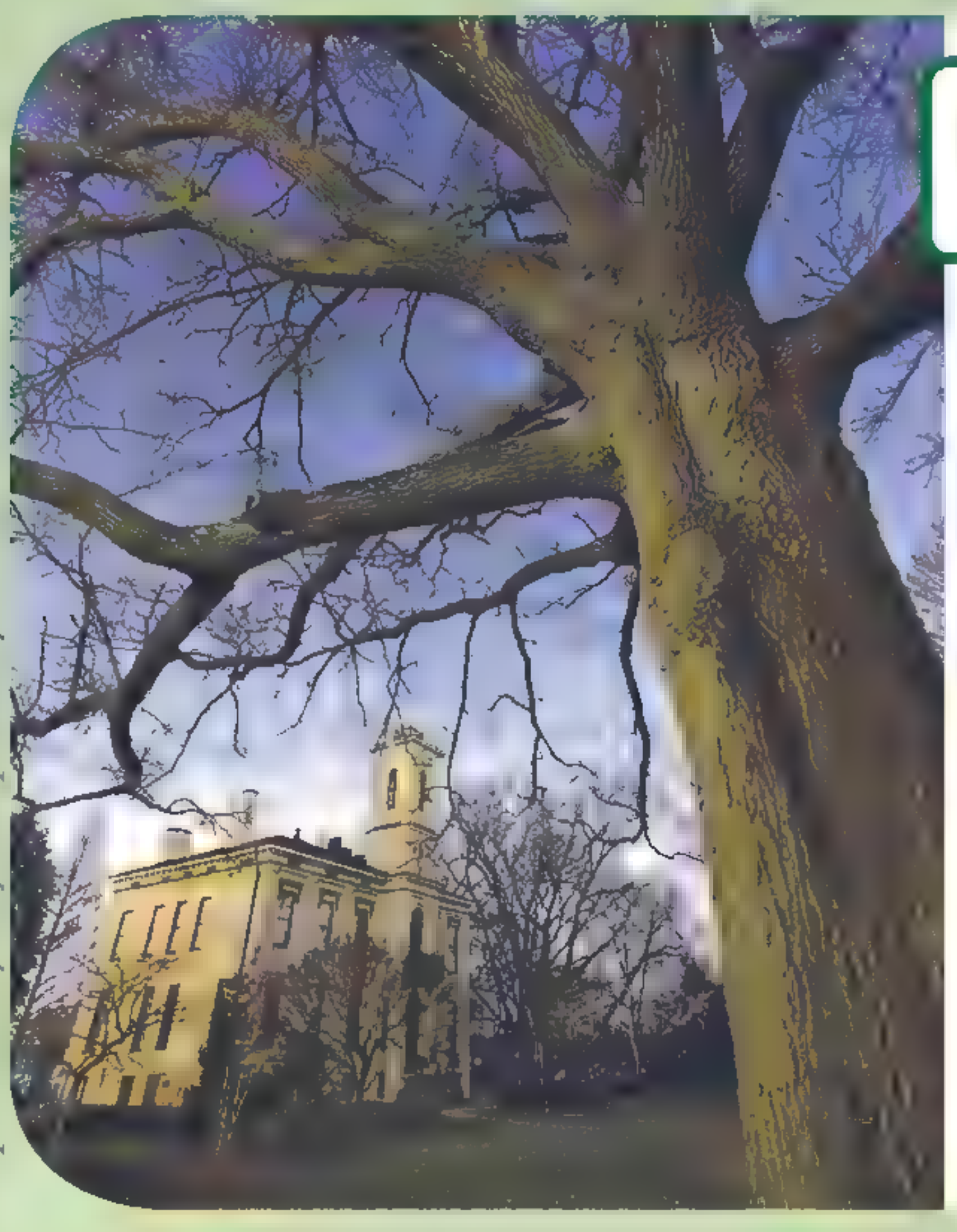


photo by Kyle Spradley

8 **Shumard oak** (*Quercus shumardii*)—About 20 species of oak are native to Missouri, including this species. Usually found on high, dry sites in St. Louis, in lowland locations it can reach a tremendous size. Its fall colors appear late in the season.

photo by Jami

7 **Scotch elm** (*Ulmus glabra*)—This magnificent old tree likely dates back to the lifetime of Garden founder Henry Shaw, who purchased eight Scotch elms around 1861. These are not often found commercially anymore due to their disease susceptibility.

2 **Flowering dogwood** (*Cornus florida*)—In addition to its beautiful spring blooms, the state tree of Missouri turns scarlet red in fall and has bright red fruit through mid-December, making it a tree for all seasons. Found throughout the Garden, they are numerous in *Seiwa-en*, the Japanese Garden.

> *"We pity the man who displays no fondness for trees. [H]e is robbing himself of one of the greatest sources of enjoyment that nature has placed within the reach of human kind."*
>
> *– Henry Shaw*

photo by David Lampe

3 **Bald cypress** (*Taxodium distichum var. distichum*)—Commonly found in swamps, these Missouri natives line the Central Axis, the row of lily pools between the Climatron and Spink Pavilion. This cone-bearing tree gets its common name because, unlike evergreen conifers, it sheds its foliage in the fall. Bald cypress can live up to 600 years or more.

photo by Josh Monken

4 **Amur cork tree** (*Phellodendron amurense*)—This tree, from the Amur River region in Mongolia, sports inconspicuous flowers and small fruit, leaving the attention for the deep green leaves and massive, low spreading branches. You'll find them northeast of the Climatron, but don't miss the one near the *Victory* statue in the Victorian District.

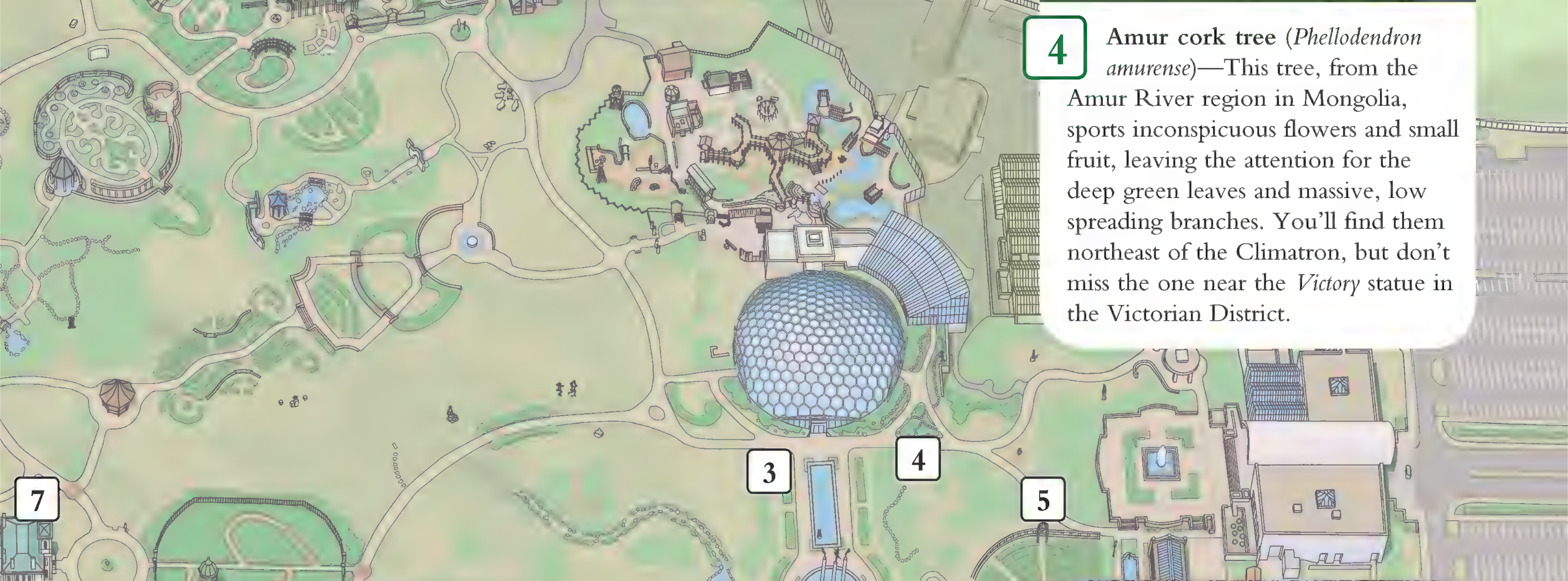


photo by Br[illegible]t Johnston

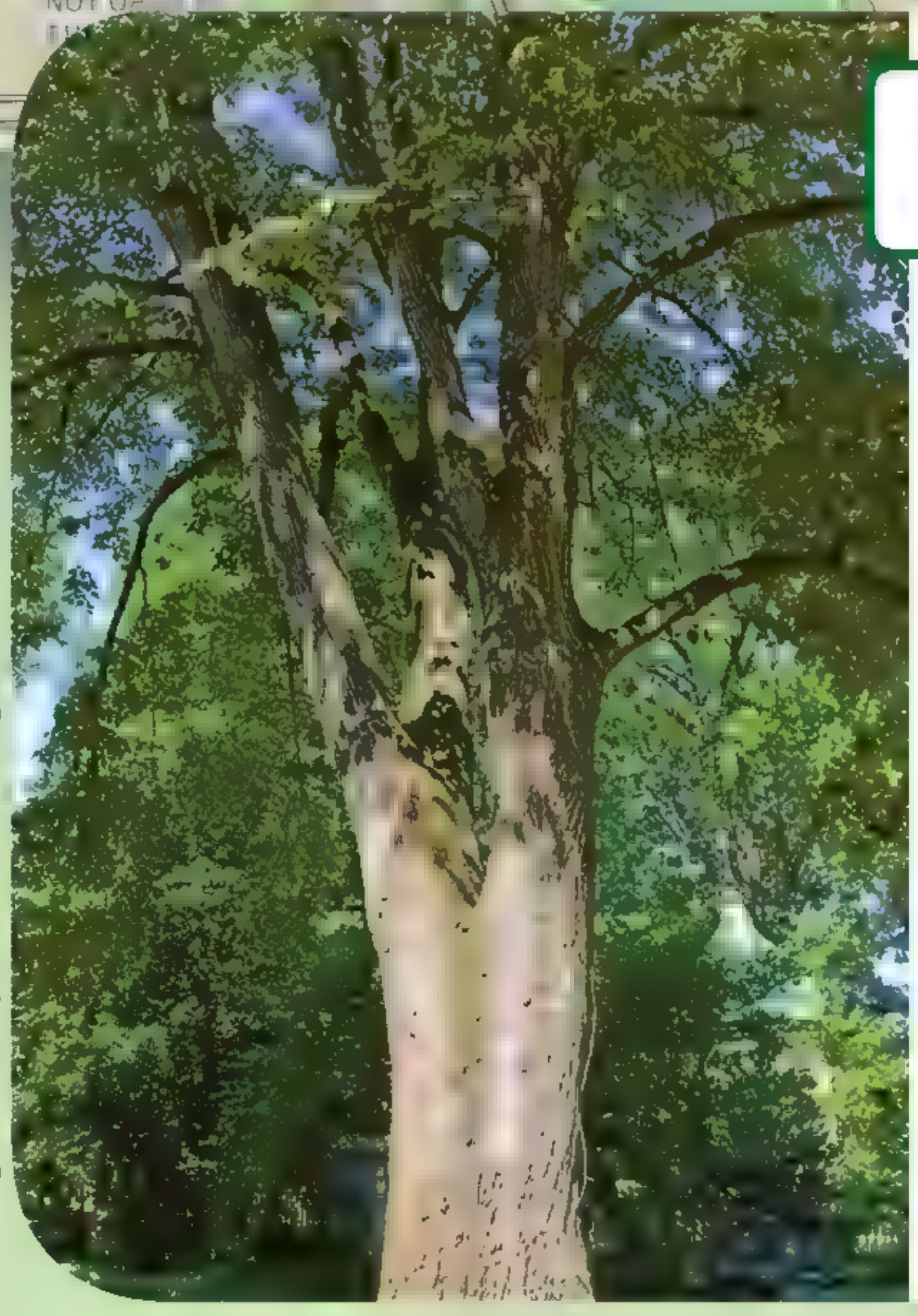


photo by David Lampe

6 **White basswood** (*Tilia heterophylla*)—This tree by the Museum Building near the Tower Grove House is one of the Garden's three Missouri State Champions, a designation marking the largest of the species in the state. The other two Missouri champions in the Garden are nearby: a possumhaw (*Ilex decidua*) and soapberry (*Sapindus drummondii*).

5 **Kiefer Magnolia Walk**—Central Missouri is the northernmost growing region for most species of magnolia. This small collection lines the path west of the Gladney Rose Garden and reaches peak bloom in mid-March, when the fragrance is not to be missed.

OCTOBER OWLS AND ORCHIDS

Hours: 9 a.m. to 4 p.m. daily (closed on Mondays, except Columbus Day, October 10)

Extended evening hours: Tuesdays, October 4, 11, 18, and 25 from 4 p.m. to 7 p.m.

Cost: included with admission

Members' Day:
October Owls and Orchids
Tuesday, October 11, 4 to 7 p.m.
Take a specialized class to learn about orchids, and stroll through the tropical conservatory to see the owl butterflies in flight. Families will enjoy crafts and other activities in the classroom. Class space is limited and advance registration required; call (636) 530-0076, ext. 10.

Fall Classes

For more details and topics for each of these classes, please visit www.butterflyhouse.org

Thursdays with Bugs
Ages 7–13
$12 members ($14 nonmembers)
Join Butterfly House critters on the first Thursday of each month at 1 p.m. for bug-themed classes with hands-on exploration. Class price includes one child and one adult.

Kids' Bug Club
Ages 7–13
$12 members ($14 nonmembers)
Is your child always crawling in dirt with the roly polies or running after bugs with a net? The Butterfly House is looking for bug enthusiasts for our new Kids' Bug Club. Meet at 2 p.m. on the second Sunday afternoon of every month for insects and games based on the smallest members of the planet. Class price includes one child and one adult.

photo by Kimberly Bretz

The Butterfly House is celebrating October with the addition of nearly 100 vividly blooming orchids and is expanding its collection of owl butterflies from 150 to almost 2,000 all month long!

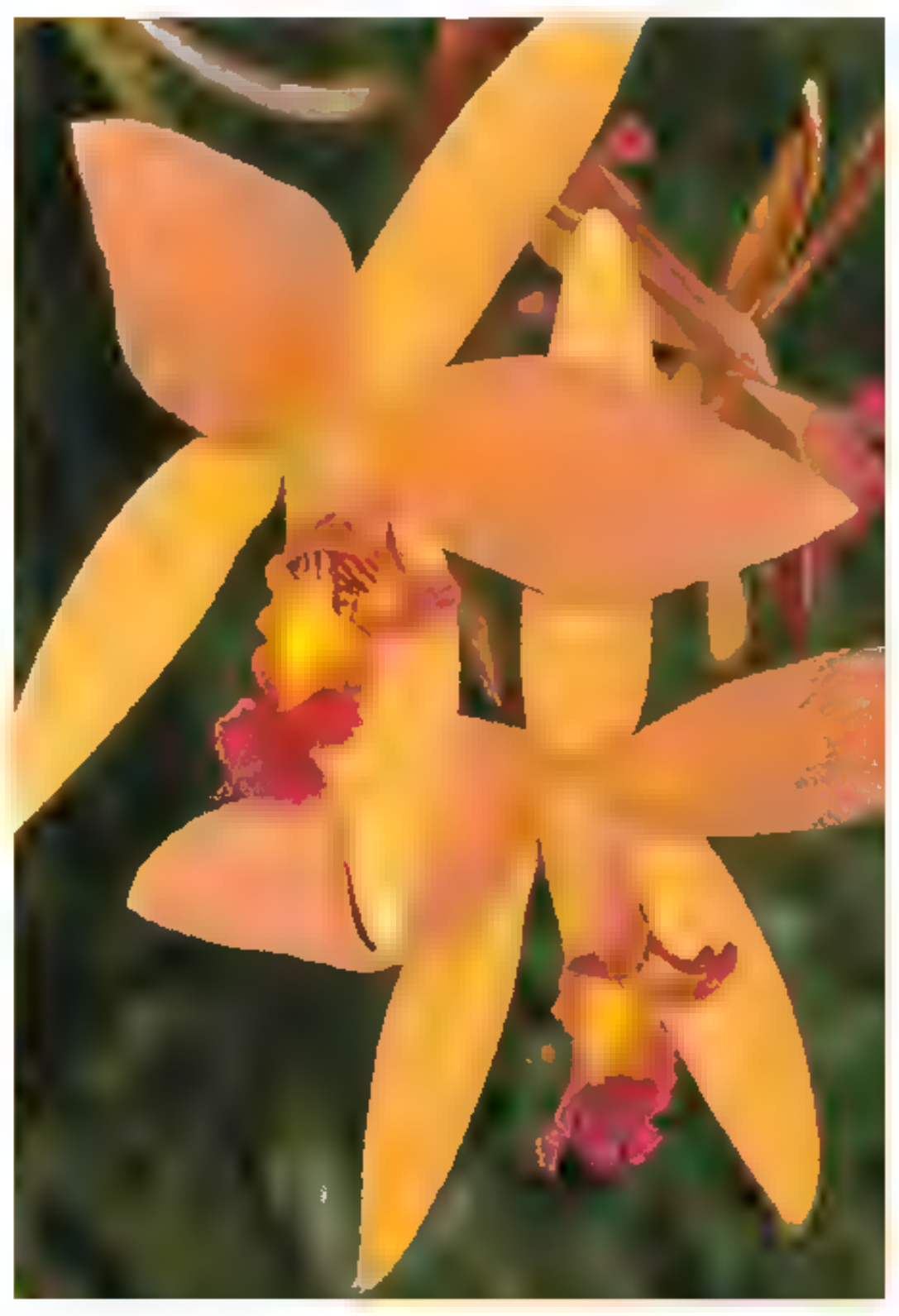
By Mark Deering

When the sun sets in October and you're looking for owls, the best place in town for owl watching is the Sophia M. Sachs Butterfly House. Be warned, though: our owls don't hoot, and they just might land right on you.

While most butterflies fly during the day, the Butterfly House has one group taking wing during the evening: the owls. These are our largest butterflies, but many people never see them take flight because they only start to fly as the sun descends below the horizon. During the day, they rest on tree trunks, exhibiting that classic eyespot on the undersurface of their wings. They are also common denizens on the fruit trays, as they will not visit flowers for nectar. They live in the understory of tropical forests, and fruit is a main source of food for them, along with tree sap, dung, and carrion.

The Owls and Orchids event includes hundreds of additional owl butterflies for a one-of-a-kind experience. Imagine being surrounded by hundreds of owl butterflies flying at 20 miles per hour as you enter the darkening conservatory. They fly and tumble in large groups along the path, brushing against you as they pass. See them gliding over the pond and the flowers in search of mates and food.

Eight-inch wingspans make them the largest of our butterflies, and they are in full flight. Colorful, fragrant blooming orchids cover the trees around you, offering glimpses of tropical jungles. It's an impressive sight! And one that most of our visitors are unable to witness.



The Butterfly House receives three species of owl butterflies: *Caligo memnon*, *Caligo eurilochus*, and *Caligo atreus*. All three are found in Costa Rica, and we receive *Caligo memnon* from Surinam as well.

This event also features well over a hundred blooming orchids of many different types placed in the conservatory. The chance to see masses of owl butterflies as well as these gorgeous plants in bloom makes this a spectacular time to visit.

Branching out with Missouri's Native Trees

By Cindy Gilberg

The economic importance of trees goes beyond just their value as lumber. They provide shade in summer, much of our oxygen, nut crops (such as black walnuts and pecans), and are home to countless creatures that depend on them for food, shelter, and nesting sites.

A new focus on using native plants in the landscape includes the diverse list of native trees. They are well-adapted to our region and enhance biodiversity in our urban environments.

Oaks are a classic choice for shade trees in Missouri and are, in general, quite adaptable. Swamp white oak (*Quercus bicolor*) and bur oak (*Quercus macrocarpa*) tolerate both wet and dry sites with a moderate to fast rate of growth. A naturally occurring hybrid between the two is Schuette oak. Red oak (*Quercus rubra*) has great fall color, and the willow oak (*Quercus phellos*) is adaptable to poorly drained soils typical in many urban areas. Oaks support more species of insects than any other genus in Missouri, and acorns are an important source of food for many animals.

Trees that provide berries for birds and other wildlife include hackberry (*Celtis occidentalis*) and the green hawthorn (*Crataegus viridis*), our state flower. Dogwoods (*Cornus* spp.) provide summer berries for birds, as does the early spring-blooming serviceberry (*Amelanchier arborea*). Black gum (*Nyssa sylvatica*) tolerates average to moist soils and, in addition to its fall crop of berries, has brilliant red fall color. Persimmon (*Diospyros virginiana*) and pawpaw (*Asimina triloba*) both have fruit that people and wildlife savor, making them great for edible landscaping.

A lesser-known native is yellowwood (*Cladrastris lutea*), a slow-growing, medium-size shade tree with loose clusters of fragrant white flowers. Its common name refers to the clear yellow dye produced from its wood.

Many trees live well over 200 years, so selection and location of planting require careful consideration. Planting native trees is a long-term investment that will enhance our environment for generations to come.

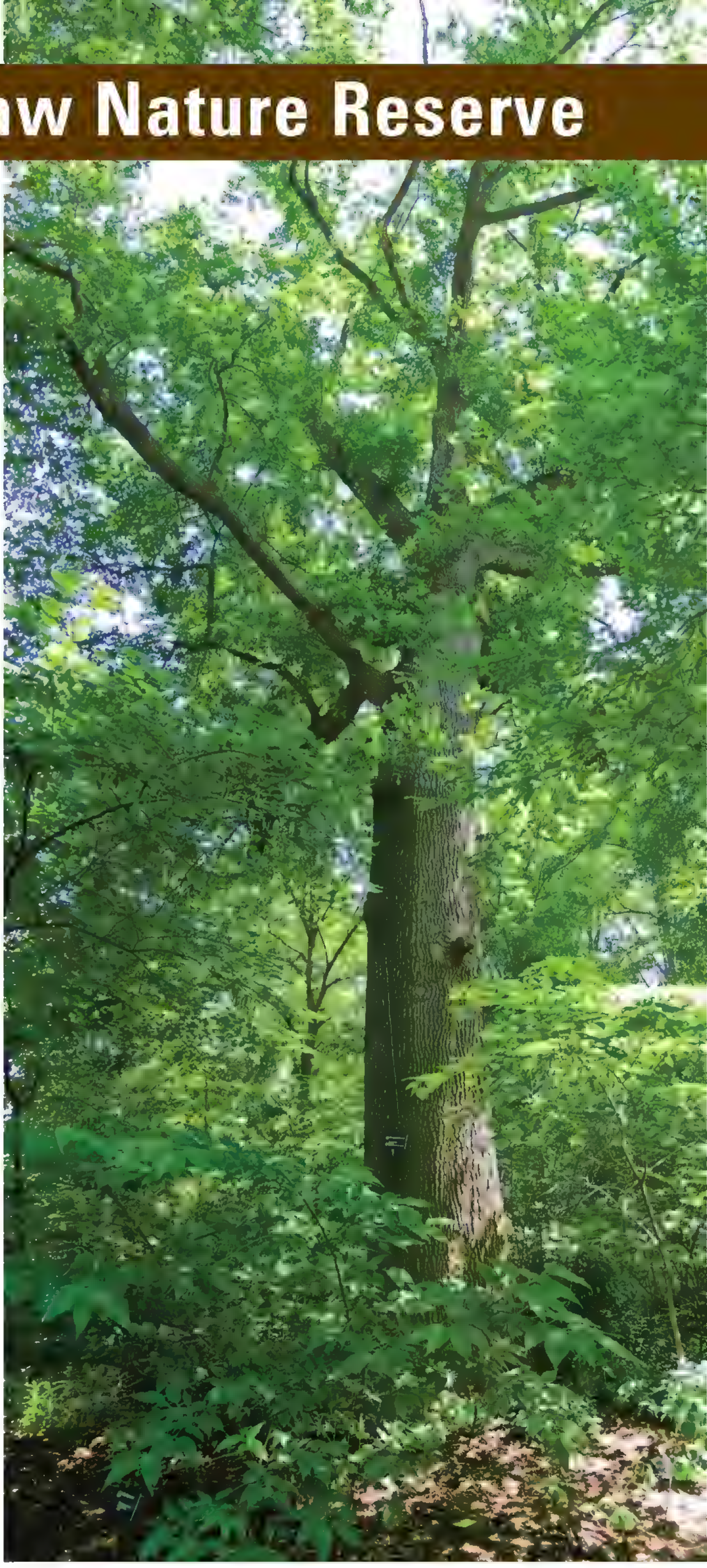


photo by Jonathan Knobelock

*Swamp white oak (*Quercus bicolor*) tolerates both wet and dry locations and has a moderate to fast growth rate.*

Myron Glassberg Family Pavilions Dedicated

In May, the Shaw Nature Reserve dedicated two new pavilions in honor of the Myron Glassberg family. In addition to the pavilions, contributions from Sunny Glassberg, Myron's widow, will help to complete a new restroom facility (currently under construction) as well as support for educational programming at the Reserve.

"Myron wanted to change the world," Sunny said during the dedication, "and we are here now because he did in fact change this small part of it."

School groups will now be directed to the pavilions, which will greatly alleviate congestion at the Visitor's Center entrance and make it much safer for children. The Reserve anticipates providing lessons on nature, conservation, and natural history to more than 5,600 students in the next academic year.

photos by Kristi Ruggles

Left, top: The new pavilions are located near the Bascom House and the Whitmire Wildflower Garden. Bottom: Sunny Glassberg, second from left in the front row, surrounded by friends for the Myron Glassberg Family Pavilion Dedication.

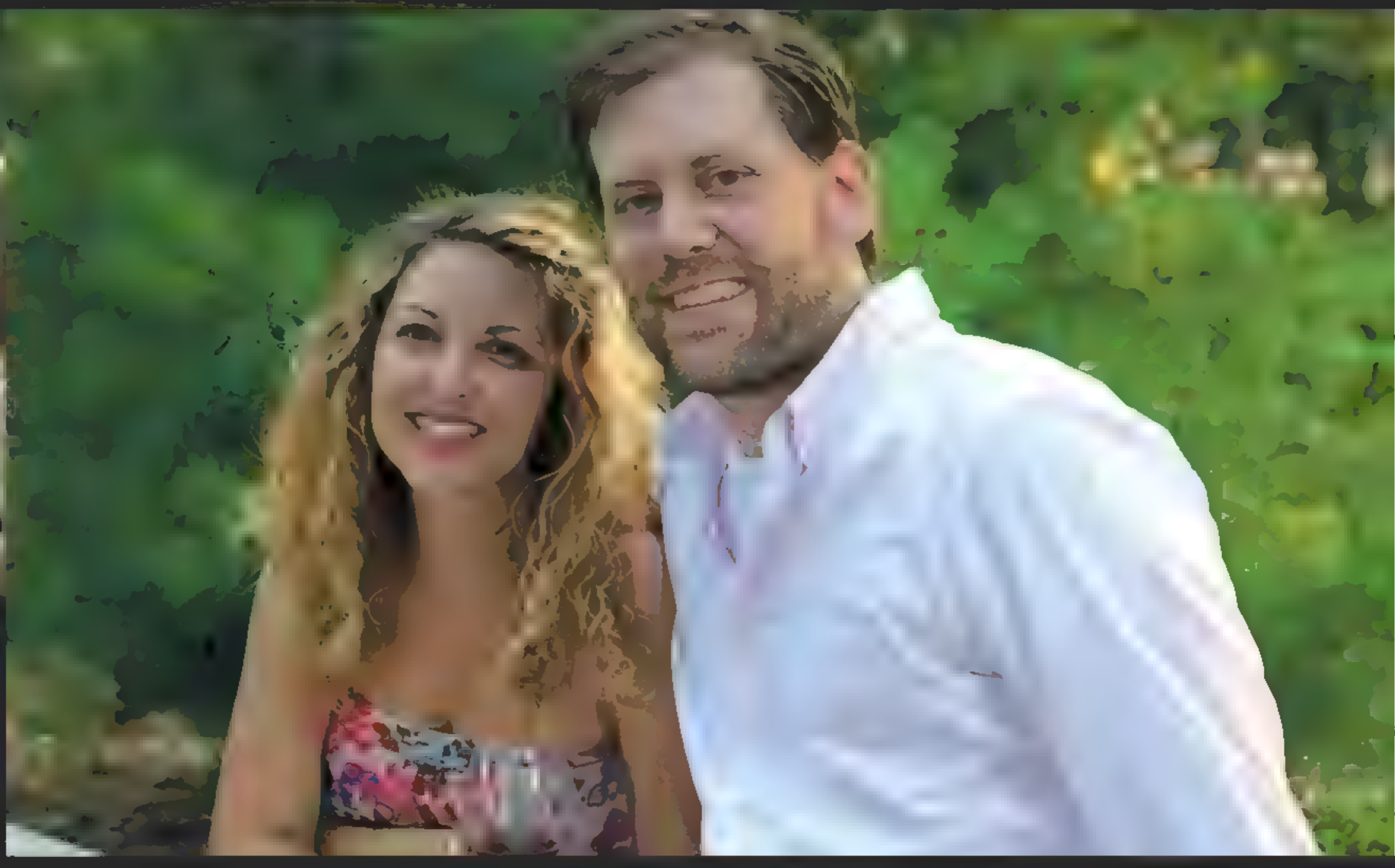
Seen at the Garden

A Toast to Summer: Wine Tasting with Nigel Mooney

Thursday, June 30

One hundred forty people enjoyed an evening of wine and music June 30 with Nigel Mooney, Ireland's leading jazz singer and guitarist. A champagne reception was followed by a performance by Mooney and fine wine and food pairings. The event was sponsored by Schnuck Markets.

photo by Mary Lou Olson

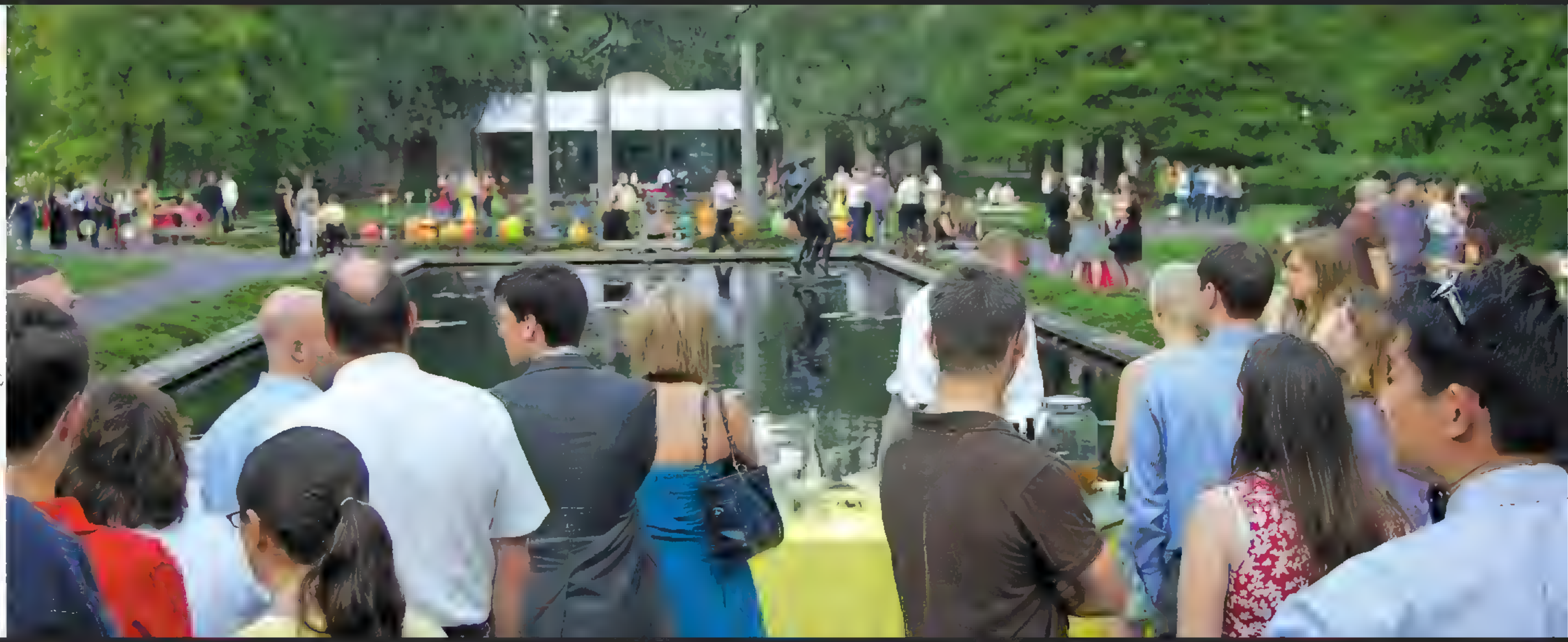


Young Friends' Climatron® and Cocktails

Tuesday, June 14

This year the Garden's Young Friends joined with Young Friends of St. Louis Public Radio to celebrate summer. Nearly 200 people enjoyed live music on the Central Axis along with hors d'oeuvres and cocktails by Purus Vodka.

photos by Andrea Nickrent, Jeff Ricker, and Michele Steinberg



Tributes

April through June 2011

A tribute gift to the Garden is a wonderful way to honor family and friends. Tributes of $25 or more are listed in the *Bulletin*. If you have questions regarding giving opportunities at the Garden, please call (314) 577-0805. You can also make a tribute gift online at our website, www.mobot.org.

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The portion of your gift that remains at your death helps support the Garden. It's a gift that enables you to meet your charitable goals, provides you with tax-favored lifetime payments, and offers immediate income tax savings. If you are retired and depend on stock dividends for income, consider funding a gift annuity with those stocks. Or consider a gift annuity instead of a CD. The rate of payment is determined by the ages of those receiving payments at the time of the contribution—the older the recipients, the higher the rate.

For more information, contact Sharon Mertzlufft at (314) 577-9495 or sharon.mertzlufft@mobot.org. You may also visit www.mobot.org to explore the planned giving guide under the "Give to the Garden" page.

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Mrs. Harriett Seward
Mr. and Mrs. Robert E. Haddix

Mr. Kevin Silvey
Mrs. Patricia L. Adams

Pamela Clark Smith
Mr. and Mrs. Newell A. Baker

Mrs. Florine Sorkin
Mr. and Mrs. Kenneth R. Fiala

Mr. Phillip Sotir
Mrs. Janet U. Rathgeber

Mrs. Jana Atteberry Southern
Clayton Garden Club
Mr. and Mrs. David G. Dimit
Good Buy Investment Syndicate
Ms. Jackie Juras
Mr. Richard L. Kluesner
Dr. and Mrs. Nicholas T. Kouchoukos
Mrs. Jane D. Landsbaum
Dr. and Mrs. Terry Swinger
The St. Louis Master Gardeners
Mr. and Mrs. Kingsley O. Wright, Sr.

Mrs. Edith Jenkin Spink
Mr. and Mrs. David C. Farrell
Dr. and Mrs. George R. Schoedinger III

The Bonnie Stallings Family
Ms. Lisa Burris

Mr. Gene E. Talbott
Mr. and Mrs. Allan Lubin

Mrs. Ruth A. Tarver
Friends at Allied Healthcare Products

Frank M. Tricomi, J.D.
Gene and Victoria Foster

Mr. Joseph D. Tripodi
Marty and Nancy Feit
Nick, Lynn and Lon Silence

Mrs. Lois M. Warner
Mr. and Mrs. James E. Clark, Jr.

Mrs. Frannie Weinstock
Mrs. Jane D. Landsbaum

Ms. Sandy Wersching
Mrs. Mary B. Strauss

Mrs. Alicia P. Withers
Mrs. Ann Key

Ms. Cindy Wrobel
Ms. Jill A. Goodman

Mr. Roger C. Zimmermann
Mrs. Helen D. Sutter

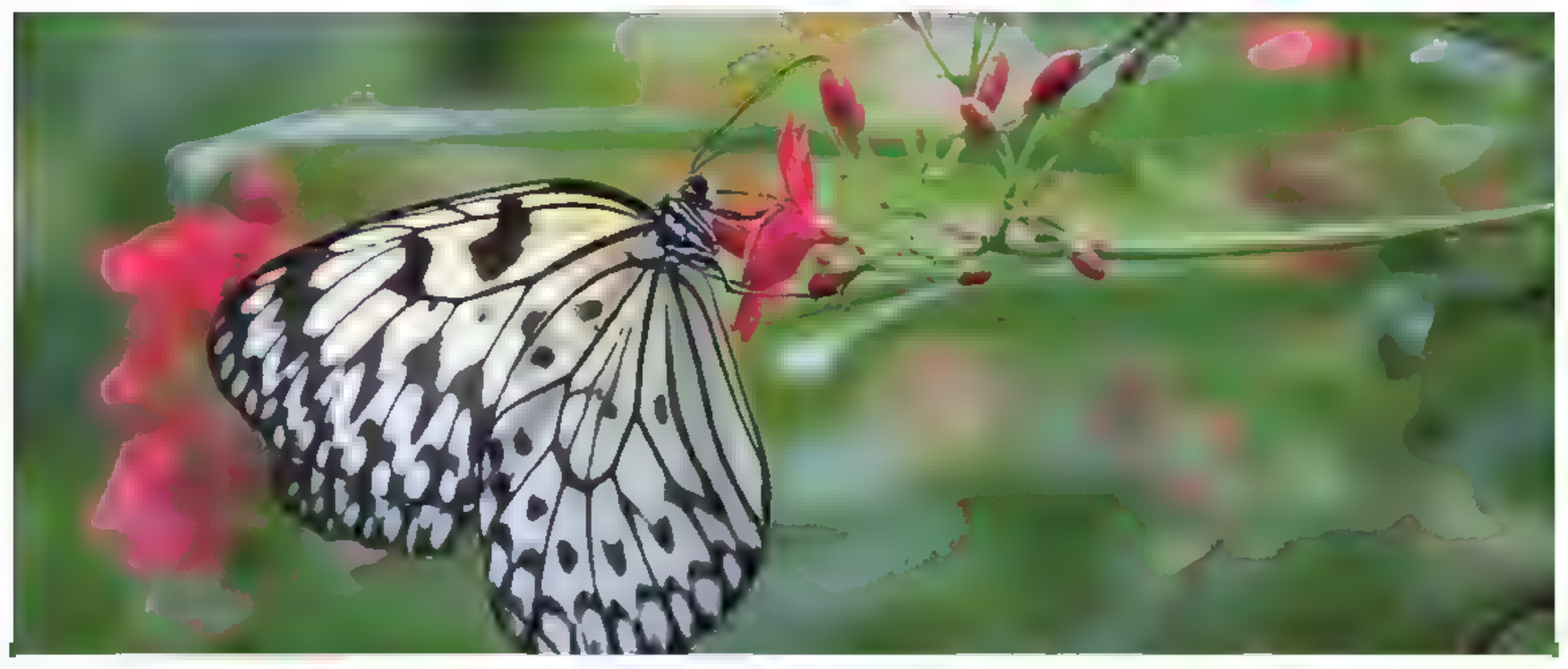


photo by David Lampe

Sophia M. Sachs Butterfly House Tributes & Pavers

Tributes and Pavers dedicated at the Butterfly House, April through June 2011.

To learn more about these opportunities, call (314) 577-0291 or visit www.butterflyhouse.org.

Tributes

In Honor of

Mr. Louis S. Sachs
Dr. and Mrs. Marvin Rennard

Ms. JoAnn Ruth Thomas
Ms. Jackie Juras

Pavers

Anita Yohler and William Eugene Baldwin
Mrs. Anita Y. Baldwin

Gladys M. and William H. Baldwin
Mrs. Anita Y. Baldwin

Matt Bazoian
Mr. and Mrs. Daniel Mauch

Rachel Anne Bequette
Mr. and Mrs. James R. Mikko

Abigail and Ryan Fairbanks
Ms. Cynthia A. Weber

Janet Sue and Clifford Gardner
Mrs. Anita Y. Baldwin

Christopher B. Graville, Jr.
Mr. and Mrs. Bob Scott

Sofia Grace Johnson
Ms. Judith A. Scott

Phyllis E. Moore
Mr. and Mrs. Joseph A. Suffko, Sr.

Joe Nagy
Mr. and Mrs. Michael Heinz

Marc Parrone, Jr.
Mr. and Mrs. Jeffrey L. Hirsch

Suzanne Phyllis Yohler Pretzel
Mrs. Anita Y. Baldwin

Gloria Ringkamp
Ms. Susan Ringkamp Smith

Brittany A. Smith-Holden
Ms. Jill S. Holden

Esther M. and Robert T. Yohler
Mrs. Anita Y. Baldwin

photo by Jonathan Knobelock

Members' Entry Court

Bricks dedicated at the Garden, April through June 2011.

Engraved clay bricks and bronze bricks are a wonderful way to commemorate any special occasion, as well as final memorials. For additional information regarding the Garden's brick program, please contact the Institutional Advancement Office at (314) 577-0291 or visit www.mobot.org.

Signature Bronze Bricks

Judy Davis Fink
Bryan Cave LLP Friends and Coworkers

Stephen P. Harris
Patricia Jo Harris
Mr. Stephen P. Harris

Virginia G. Laschober
Mr. Walter L. Laschober

Mildred E. Villa
Mr. and Mrs. Eugene P. Villa

Engraved Clay Bricks

Carol and Paul Albert
Miss Alma K. Reitz

Bill J. and Mary D. Auchly
Mr. Todd Govro

Kenneth M. Brooks
Mrs. Ruth A. Brooks

Tim Classe
Mr. and Mrs. Gregory Morgan
Ms. Melissa Talbott

John and Christy Connor
Miss Kathryn L. Connor

Florence Corman
Dr. Mark Corman

Raymond Memon Deering
Mr. Shaun J. Benyr

Lily Grace Hagan
Mr. and Mrs. Joseph C. Hagan

Moonam Kang
Takeo Ono
Mrs. Linda D. Barlows

Paul and Mary Reitz
Miss Alma K. Reitz

Gail and Tom Sterling
Miss Alma K. Reitz

Marc Allen Unverrich
Mr. and Mrs. Lowell K. Unverrich

Low-maintenance livestock

This adorable family of goats is made in Texas from recycled scrap metal. Check out the Garden Gate Shop's selection of gifts for the urban farmer in our holiday homesteading display. Members always receive a discount.

GARDEN
GATE SHOP.ORG

All proceeds benefit the Missouri Botanical Garden.

Story Time!

Join us and receive 20% off all children's books on story time day. Gather around the sofa in the book area at 10 a.m. to hear stories from the following great books:

September 3:	*Chicken Butt's Back!* by Erica S. Perl and *Chicken Cheeks* by Michael Ian Black and Kevin Hawkes
October 1:	*Red Wagon* by Renata Liwska and *Bats at the Ballgame* by Bran Lies
November 5:	*All the Seasons of the Year* by Deborah Lee Rose and *Velveteen Rabbit* by Margery Williams

Events

Japanese Festival

Saturday and Sunday, September 3–4, 10 a.m. to 8 p.m.
Monday, September 5 (Labor Day), 10 a.m. to 5 p.m.
The Garden's annual celebration of Japanese arts, culture, and cuisine features taiko drumming, bon odori festival dancing, martial arts, candlelight walks in the Japanese Garden, and more.

Admission: $15 adults (13–64), $10 seniors (65+), $5 members and children (3–12). Buy tickets in advance online at www.mobot.org. No trams.

Sponsorship support by Bodine Aluminum, BSI Constructors, Central States Coca-Cola Bottling Company, and Novus International.

Best of Missouri Market®

Friday, September 30, 6 to 9 p.m.,
Saturday and Sunday, October 1–2, 9 a.m. to 5 p.m.
Members only – Saturday, October 1, 7 to 9 a.m.
and Sunday, October 2, 8 to 9 a.m.
Over 120 Missouri food producers and crafters offer everything from fresh produce to custom jewelry. Live music and Kids Corner activities. Outdoors under tents, rain or shine.

photo by John Martin

NEW! First Look Friday: Don't miss this early chance to shop and dine in celebration of the Market's 20th anniversary. Enjoy music and attendance prize drawings, too!

Admission: $12 adults (13–64), $10 seniors (65+), $5 children (3–12), $5 members. Buy tickets in advance online at www.mobot.org. No trams.

Presented by Schnuck Markets. Additional sponsorship support by AgriMissouri, Brown Shoe, Central States Coca-Cola Bottling Company, Commerce Bank, Drury Hotels Company, Edward Jones, The Home Depot, Ingersoll Rand/Hussmann International, KMOX, Mercy Children's Hospital, Peabody Energy, Ronnoco Coffee Company, Waterway Gas & Wash, and Wehrenberg Theatres.

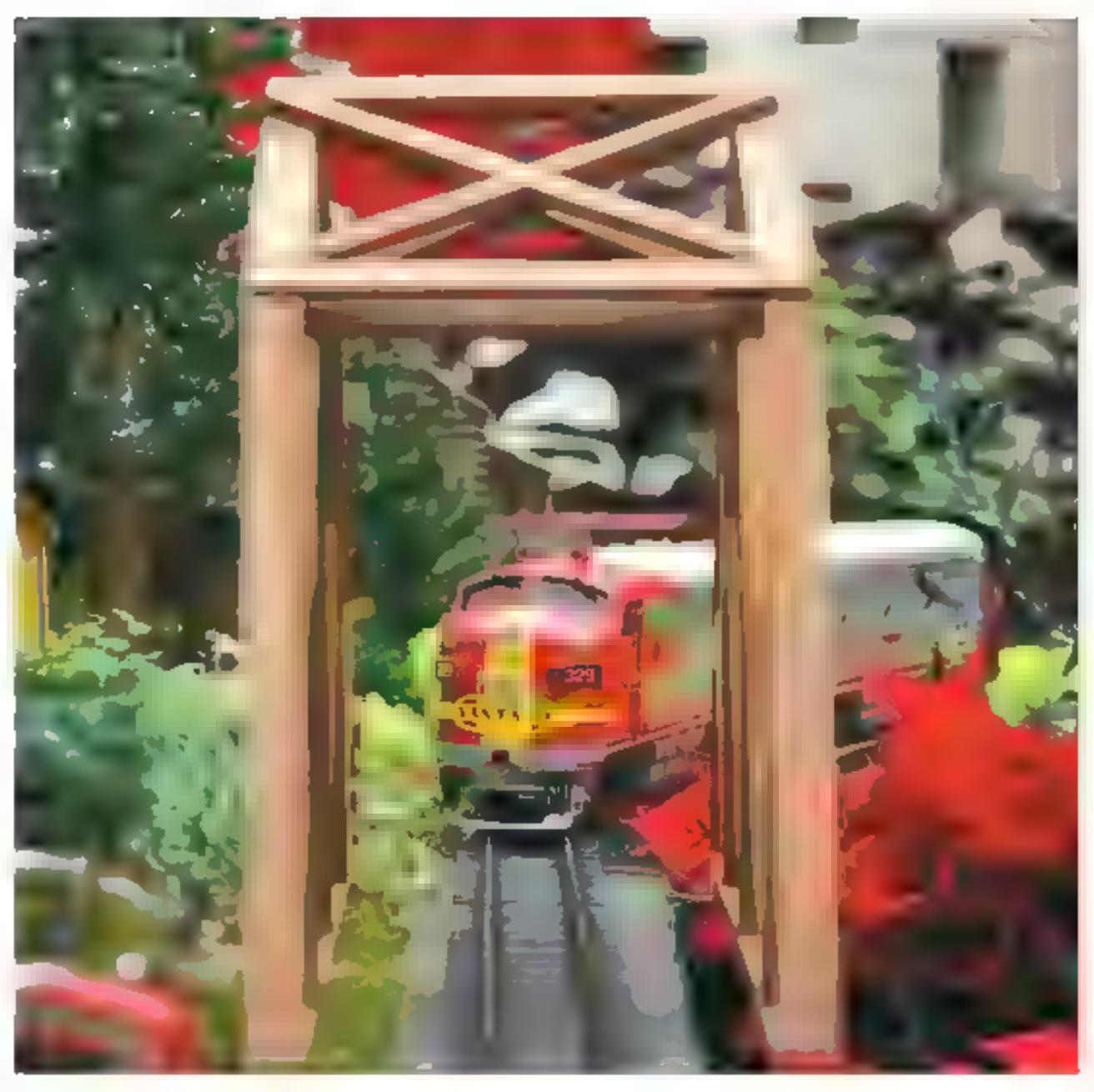


photo by Heather Marie Osborn

Gardenland Express

November 23, 2011 through January 2, 2012
The annual holiday flower and train show caps off a TREEmendous year with "the gifting tree," celebrating the many benefits we receive from trees. 9 a.m. to 5 p.m. daily; closes at 4 p.m. on Christmas Eve and New Year's Eve; closed Christmas Day. Orthwein Floral Display Hall.

Admission: Garden admission plus $5; free for members.

Sponsorship support is provided by Central States Coca-Cola Bottling Company.

Gardenland Express Members' Evening | *Wednesday, November 30, 5 p.m.*

Fall Wildflower Sale

Friday, September 9, 4 to 8 p.m., Shaw Nature Reserve
For new and experienced gardeners. Stroll the Whitmire Wildflower Garden to get inspiration and talk to staff and experts on how to use native plants in your landscaping. $5. Rain or shine. Information: (636) 451-3512.

Nordstrom St. Louis Galleria grand opening gala

Wednesday, September 21, 6 to 9 p.m., Saint Louis Galleria
Benefiting local cultural institutions, including the Garden. $75. Reservations required; call (314) 577-5152 or visit www.mobot.org/nordstrom.

green homes great health FESTIVAL

Saturday, September 24,
9 a.m. to 5 p.m.
Celebrate sustainable living! Get home-greening ideas from 100+ exhibitors. Learn how to stay healthy and prevent cancer by talking with Washington University physicians. Plus workshops, local foods, kids' activities, and more. Sponsored by Ameren Missouri. Presented by the Garden's EarthWays Center with Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine. Included with Garden admission. Information: www.greenhomesSTL.org

Just for Members

Members' Day: "Botanical Gardens and Plant Conservation" by Dr. Peter Wyse Jackson

Tuesday, September 20, 10 a.m. Shoenberg Theater. Information: (314) 577-5118.

Members' Event: Best of Missouri Market Members' Breakfast

Saturday, October 1, 7 to 9 a.m. and Sunday, October 2, 8 to 9 a.m. $5.

Young Friends Fest-of-Ale

Friday, October 14, 6 to 10 p.m.
Enjoy appetizers, beer, and live music under the stars with the Young Friends of the Missouri Botanical Garden. $15 ($30 nonmembers). Reservations required: (314) 577-9570 or www.mobot.org/membership. Information: (314) 577-5120.

Ghouls in the Garden

Sunday, October 30, 1 to 3 p.m. Free for Garden members ($5 nonmember children ages 3 to 12). Special Children's Garden closing activities, too! Reservations required: (314) 577-9570 or www.mobot.org/membership. Information: (314) 577-5154.

Members' Day: Holiday Decorating

Tuesday, November 8, 11 a.m.,
Shoenberg Theater
Join Dean Reibling of Botanicals Design Studio for tips and tricks to deck your halls. Information: (314) 577-5118.

Holiday Wreath Auction

Saturday, November 19 to Wednesday, December 28, Monsanto Hall
Bid on unique creations from some of the area's finest floral designers. Proceeds benefit the Garden.

September
2011

average temperature:
low 60.3°, high 80.1°
average precipitation: 2.96 in.

What's in bloom?

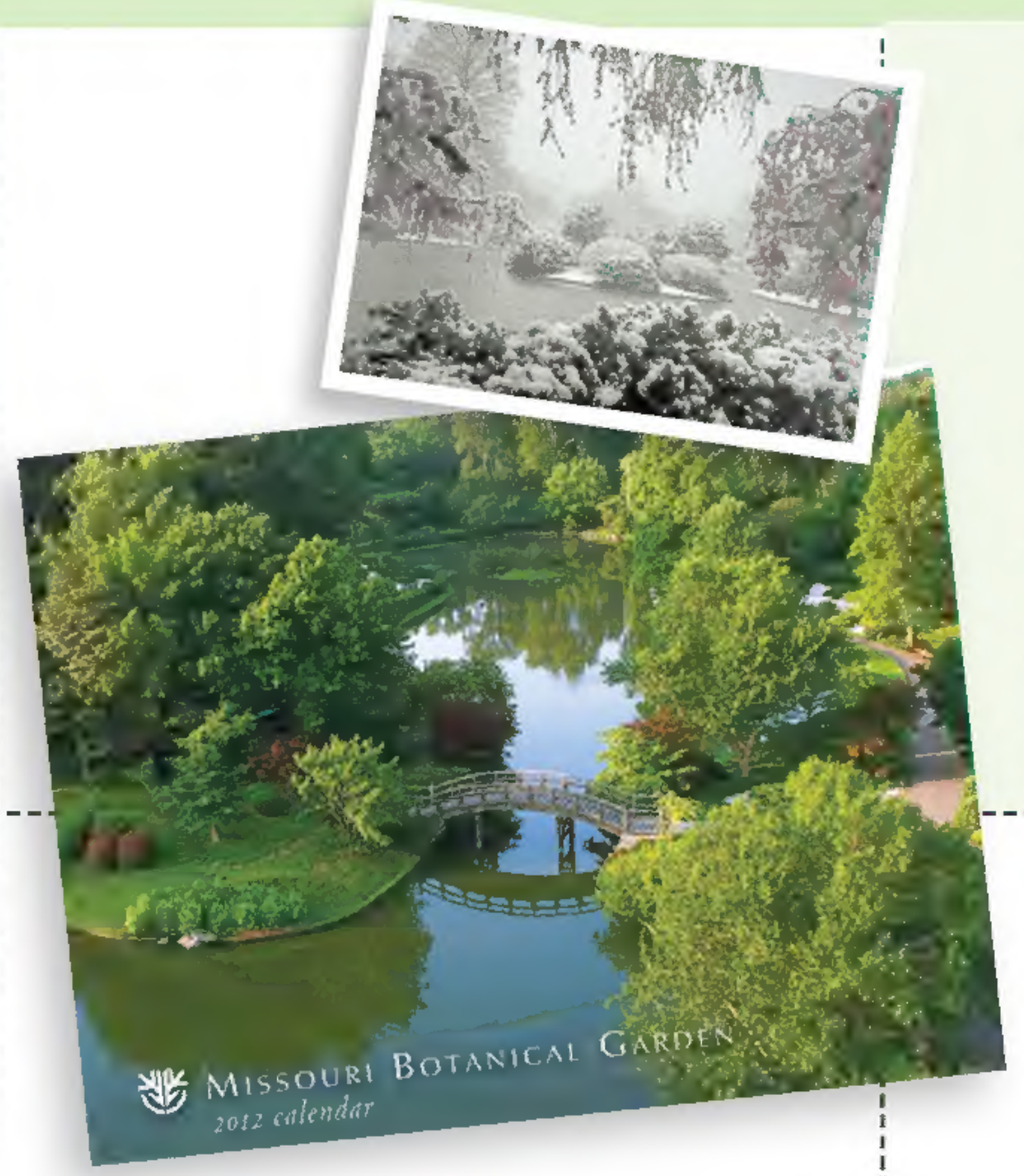
windflower

coneflower

blood flower

aster

hydrangea

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	the great ST. LOUIS Tree hunt **through September 30** *Presented by Gamma Tree Experts* Download a brochure at www.mobot.org/treemendous		**Go Green for the Holidays!** *The Garden calendar and holiday cards are printed on 100% post-consumer recycled paper. Purchase yours today in the Garden Gate Shop.*	01	02	03 JAPANESE FESTIVAL 2011 10 a.m. to 8 p.m. $ ■ Story time. 10 a.m. GGS
04 JAPANESE FESTIVAL 2011 10 a.m. to 8 p.m. $	05 LABOR DAY JAPANESE FESTIVAL 2011 10 a.m. to 5 p.m. $	■ Little Acorns: Earthwalk 9:30 a.m., $☎ SNR	07	08	09 ■ Exhibit: Best of Missouri Painters, through Oct. 30. MH ■ Fall Wildflower Sale. 4 p.m. $ SNR	10 ■ *St. Louis Aviation* book signing by Jeremy R. C. Cox. 11 a.m. GGS ■ Wildflower Identification & Ecology, 9 a.m. $☎ SNR
11	12	13 ■ Fall Wildflower Ramble, 9:30 a.m. $ SNR	14	15 ■ Native Plant School: Native Seed Collecting, Cleaning, & Storage, 1 p.m. $☎ SNR	16 ■ Native Plant School: Native Seed Collecting, Cleaning, & Storage, 1 p.m. $ SNR ■ Around the World Wine Dinner. 6:30 p.m. $☎	17 ■ Great Green Adventures. 10:30 a.m. and 1:30 p.m. $ CHD ■ Gateway West Gesneriad Society show and sale. RVC ■ Greater St. Louis Dahlia Society show. RVC ■ *East St. Louis* book signing by Bill Numes, 11 a.m. GGS
18 ■ Gateway West Gesneriad Society show and sale. RVC ■ Greater St. Louis Dahlia Society show. RVC	19	20 ✿ Members' Day: "Botanical Gardens and Plant Conservation" by Dr. Peter Wyse Jackson. 10 a.m. ST ☎ ■ Fall Wildflower Ramble, 9:30 a.m. $ SNR	21 ■ Nordstrom Galleria grand opening gala. 6 p.m. $☎	22	23 ■ Spring Bulb Sale. RVC	24 green homes great health FESTIVAL ■ Spring Bulb Sale. RVC
25 ■ Spring Bulb Sale. RVC	26 ■ Spring Bulb Sale. RVC	27 ■ Fall Wildflower Ramble, 9:30 am $ SNR	28	29 ROSH HASHANAH	30 BEST of MISSOURI 20th anniversary MARKET 6 to 9 p.m. $ ■ Bootheel Field Trip (through Oct. 2), 6 a.m. $☎ SNR	

photos by Carol Graves, Becky Homan, Glenn Kopp, Theresa Pafford, Christine Siebert, and Erin Whitson

October 2011

average temperature:
low 48.2°, high 68.3°
average precipitation: 2.76 in.

What's in bloom?

mums

gourds

dahlia

sunflowers

goldenrod

KEY *(All events take place at the Garden unless otherwise noted.)*

BH	Butterfly House
CA	Cohen Amphitheater
CBEC	Commerce Bank Center for Science Education
CHD	Children's Garden
CL	Climatron lawn
GGS	Garden Gate Shop
JE	Jordan Education Wing in the Visitor Center
KC	Kemper Center for Home Gardening
LS	Little Shop Around The Corner
MC	Monsanto Center
MH	Monsanto Hall in Ridgway Visitor Center
RVC	Ridgway Visitor Center
SNR	Shaw Nature Reserve
SP	Spink Pavilion
ST	Shoenberg Theater in Ridgway Visitor Center
🌿	Sassafras
✿	Members-only event
☎	Reservations required
$	Fee required

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			www.plasticpotrecycling.orgPlastic Pot Recycling *Through Oct. 31*	**Closing for the Season Oct. 31:** • Children's Garden • Tram operations • Terrace Café at the Kemper Center for Home Gardening		01 BEST of MISSOURI 20th anniversary MARKET 9 a.m. to 5 p.m., ✿ Members only–7 to 9 a.m. $ Story time. 10 a.m. GGS
02 BEST of MISSOURI 20th anniversary MARKET 9 a.m. to 5 p.m., ✿ Members only–8 to 9 a.m. $	03	04 Little Acorns: Autumn Celebration, 9:30 a.m. $ SNR	05	06	07	08 YOM KIPPUR Wildflower Identification & Ecology, 9 a.m. $ SNR Seeing Nature through the Lens, 7 a.m. $☎ SNR Flying Wild Festival, 10 a.m. SNR
09 Seeing Nature Through the Lens, 7 a.m. $☎ SNR TREEmendous Canopy Climb, 12:30 p.m. $ SNR	10 COLUMBUS DAY	11 ✿ Members' Day: October Owls and Orchids. BH	12	13 Native Plant School: Fall Native Perennials & Grasses for Landscaping, 1 p.m. $☎ SNR	14 Native Plant School: Fall Native Perennials & Grasses for Landscaping, 1 p.m. $☎ SNR ✿ Young Friends' Fest-of-Ale. 6 p.m. $☎	15 Trees of the Shaw Nature Reserve, 9 a.m. $☎ SNR Great Green Adventures: 10:30 a.m. and 1:30 p.m. CHD $ Evening with the Scarecrows, 6:30 p.m. $ SNR Daffodil Society sale. RVC Lily Society sale. RVC
16 Greater St. Louis Daffodil Society sale and Mid America Regional Lily Society sale. RVC	17	18	19	20 ✿ Members' Day: Walking Tour of Trees. 11 a.m. ☎ST	21 Around the World Wine Dinner. 6:30 p.m. $☎	22
23 Mike Fay Live: "Climbing Redwood Giants." 2 p.m. ST 30 Children's Garden closes for the season. $ Ghouls in the Garden. 1 to 3 p.m. $☎	24 31 HALLOWEEN	25	26 DIWALI	27	28	29 Children's Garden closes for the season. $ Native American and Pioneer Healing, 9 a.m. $☎ SNR

photos by Kimberly Bretz, Lauren Kirkwood, Glenn Kopp, Tammy Palmier, and Leslie Patrice.

November
2011

average temperature:
low 36.7°, high 53.8°
average precipitation: 3.71 in.

What's in bloom?

fall color

pansies

anemone

sage

burning bush

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		01 ■ Little Acorns: Feast for the Birds, 11:30 a.m. $☎ SNR	02	03 ■ Gift membership sale ■ Members' 20% off sale. GGS	04 ■ Gift membership sale ■ Members' 20% off sale. GGS	05 ■ Gift membership sale ■ Members' 20% off sale. GGS ■ Partners for Just Trade trunk show. GGS ■ Before the Click Photography Overnight, 9 a.m. $☎ SNR ■ Story time. 10 a.m. GGS
06 EID-AL-ADHA ■ Gift membership sale ■ Members' 20% off sale. GGS ■ Partners for Just Trade trunk show. GGS	07	08 ✿ Members' Day: Holiday Decorating. 11 a.m. ST	09	10	11 VETERANS DAY	12
13	14	15	16	17 ■ Science Café, 7 to 9 p.m., Herbie's Restaurant.	18 ■ Around the World Wine Dinner. 6:30 p.m. $☎	19 ■ Great Green Adventures: Marvelous Mediterranean. $ CHD
20	21	22	23 ■ Gardenland Express opens. *Through Jan. 1, 2012.*	24 THANKSGIVING	25	26 ISLAMIC NEW YEAR
27	28	29	30 ✿ Gardenland Express Members' Preview.	gift of the GARDEN	Get a jump on holiday shopping! Buy Garden, Garden Plus, and Family level gift memberships at 20% off November 3–6. (Discounts apply to on-site sales only.)	

photos by Kimberly Bretz, Mary Lou Olson, Leslie Patrice, John Smelser, and Chris Starbuck.

MISSOURI BOTANICAL GARDEN
P.O. Box 299 • St. Louis, MO 63166–0299

PERIODICALS
POSTAGE PAID AT
ST. LOUIS, MO

20th Anniversary
BEST of MISSOURI
MARKET

photo by Kemberly Bretz

20th Anniversary

Best of Missouri Market®

Friday, September 30 to Sunday, October 2, 2011
Special admission rates apply.

Over 120 Missouri artisans present the finest edible and artistic creations the Show-Me State has to offer. Get a head start on holiday shopping while enjoying live music and kids' activities. Presented by Schnuck Markets. Part of the American Arts Experience–St. Louis.